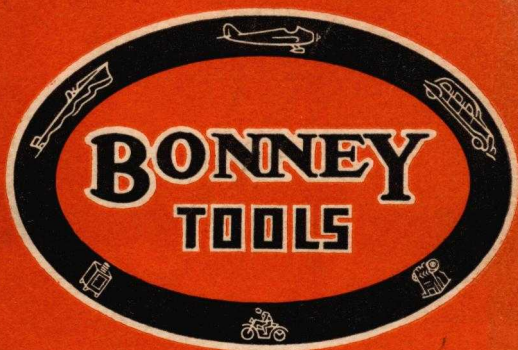




**A Catalog
and
Handy Data Book
for Mechanics**

CATALOG No. 136

**BONNEY
FORGE AND TOOL WORKS**

ALLENTOWN, PA., U.S.A.

A **USEFUL** and **CONVENIENT**

Catalog and Data Book

FOR MECHANICS

THIS handy Data Book and Catalog should be kept in your tool kit or in a convenient place for use by all the mechanics in the shop. It contains valuable reference data throughout, as well as on pages 53 to 56. This information was published for your benefit . . . you will find it useful.

BONNEY 'CV' Chrome-Vanadium and ZENEL Wrenches

No mechanic's tool kit is complete without an ample assortment of Bonney Wrenches and Tools. They are correctly designed—are made of **ZENEL** or *Chrome-Vanadium* Steel and embody the highest type of workmanship. You'll find you can do the job quicker and better with them.

Bonney 'CV' *Chrome-Vanadium* Wrenches are the original alloy steel wrenches. They were developed and pioneered by Bonney. **ZENEL** Wrenches are by far the hardest, tough wrenches on the market . . . they have no equal. Bonney Screw Drivers, Punches, Chisels, Hammers and other tools are also well known for the exceptional service they give.

A COMPLETE LINE OF SPECIAL WRENCHES

Bonney takes pride in its line of Special Wrenches. It contains a wrench for almost every job on which a special wrench is needed. We invite any mechanic who requires a special wrench that is not listed, to write direct to the factory, giving full information.

To help you quickly locate the tool you are interested in, the Index below will be convenient.

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MECHANIC'S NET PRICES SHOWN

All prices shown in this catalog are prices to dealers and to those engaged in operating garages and general repair shops. Mechanics known to the trade can obtain these prices.

Prices are subject to change without notice. Your jobber carries these items in stock or can obtain them on short notice. If there is no Bonney Jobber in your territory, order from the factory.

THE BONNEY GUARANTEE

All Bonney Wrenches and Tools are guaranteed against defects in workmanship or material. When returned to the factory for examination, they will be replaced free of charge.

Extra-Small Socket Series

$\frac{9}{32}$ inch Square Drive



Very small sockets are often desirable for work in restricted quarters . . on jobs such as magnetos, generators, carburetors, radios and wiring connections. Bonney Extra-Small Sockets and Handles are popular on such work. The sockets have thin walls, accurate double-hexagon openings and are strong and light in weight. They are made of *Chrome-Vanadium Steel* and are Chrome-plated.

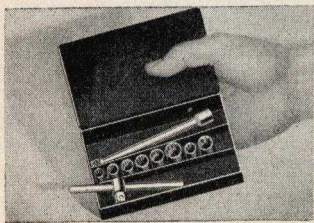
Extra-Small Series Sockets

No.	Opening	Net Price
M8	$\frac{1}{4}$ " double hexagon	\$0.25
M9	$\frac{9}{32}$ " double hexagon	.25
M10	$\frac{5}{16}$ " double hexagon	.25
M11	$\frac{11}{32}$ " double hexagon	.25
M12	$\frac{3}{8}$ " double hexagon	.25
M14	$\frac{7}{16}$ " double hexagon	.25
MS8	$\frac{1}{4}$ " double square	.25
MS10	$\frac{5}{16}$ " double square	.25

Extra-Small Series Handles

No.	Description	Net Price
M4	Extension, $4\frac{1}{2}$ " long	\$0.60
M5	Sliding T, 4" long	.60
M19	Spinner, non-conductor type, $\frac{7}{8}$ " shank, 3" overall	.50
M20	Spinner, non-conductor type, $2\frac{15}{16}$ " shank, 5" overall	.55

EXTRA-SMALL SOCKET SET No. ES

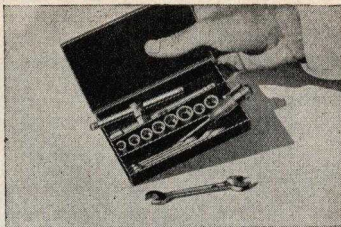


Net Price..... **\$3.30**
Net Weight $1\frac{1}{2}$ lbs.

Small . . strong . . and very useful. This set of Extra-Small Sockets and Handles is a handy "little helper". Used on magnetos, carburetors, generators, radios, wiring connections and similar jobs. The No. ES Set contains the six double-hexagon sockets and two double-square sockets listed above. Also an M4 Extension and M5 Sliding "T" Handle. Packed in a neat, compact, metal case that can be slipped into your pocket.

EXTRA-SMALL SOCKET and WRENCH SET No. ES1

A very complete set for electrical work and on jobs where small tools are required. Used also in aviation work. This set contains Nos. M8 M9, M10, M11, M12, M14, MS8 and MS10 Extra-Small Sockets and the M4 Extension and M5 Sliding "T" Handle. Nos. H10, H12, H14, H16 and H18 ZENEL Miniature Wrenches shown on page 20 and the No. 001 Pocket Size Screw Driver shown on page 48 are also included. Packed complete in metal box as illustrated.



Net Price, in Metal Box.....\$4.95
Net Weight 1 1/4 lbs.

EXTRA-SMALL SOCKET and TOOL SET No. ES5



Without a doubt the No. ES5 Set is the most complete set of small and miniature tools ever assembled by any manufacturer. Containing 43 pieces, it is specially adapted for work on small electrical apparatus, ignition systems, carburetors, typewriters, radios and for light assembly work where parts are small and space in which to work is limited. It contains Nos. M8, M9, M10, M11, M12, M14, MS8, MS10 Extra-Small Sockets, M4 Extension and M5 Sliding "T" Handle.

Nos. E40, E42, E44 and E46 Miniature Box Wrenches shown on page 21.

Nos. E14, E16, E18, E20, E22, E24, E26, E28 and E30 ZENEL Electrical Wrenches shown on page 20.

Nos. H10, H12, H14, H16 and H18 ZENEL Miniature Wrenches shown on page 20.

No. C1 Cold Chisel shown on page 44, Nos. C51, C52 and C53 Pin Punches and No. C56 Center Punch.

Nos. 001, E02 and 006 Screw Drivers shown on page 48. 3" Offset Screw Driver with 5/16" tip.

No. 2572 Ignition Plier shown on page 21. No. E55 Tweezer and K6 Holding Tool shown on page 52.

No. PH1 Ball Pein Hammer and No. PH17 Soft-face Hammer shown on page 46, and one Point File, 5" long.

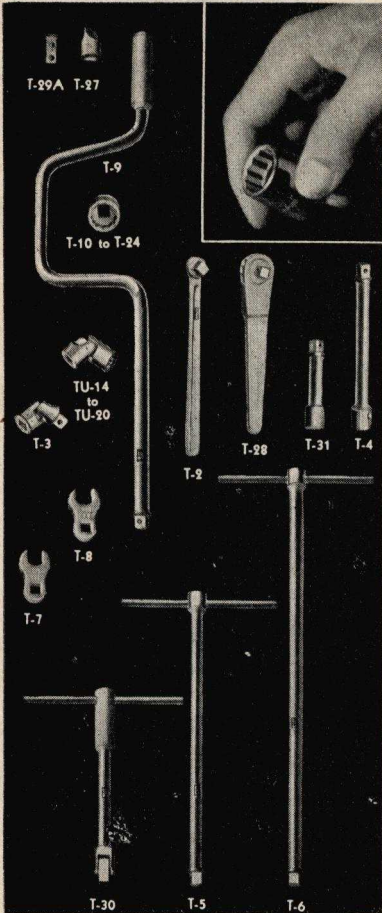
Packed complete in a strong, metal box, black enameled as illustrated.

Net Price, in Metal Box\$16.60

Net Weight 4 lbs,

Small Socket Series

$\frac{3}{8}$ inch Square Drive



No mechanic's Tool Kit is complete without an assortment of Small Series Sockets. Many jobs on which these Sockets are used can be done only with great difficulty using other types of wrenches. . . The line is complete including Sockets, Handles and Attachments. Every piece is correctly designed, strong and light in weight. Made of *Chrome-Vanadium Steel* and Chrome-plated.

Small Series Handles and Attachments

No.	Description	Net Price
T2	Offset Handle	\$0.85
T3	Universal Joint	1.35
T4	Extension, 6" lg.	.60
T5	'T' Hdle, 12" lg.	.85
T6	'T' Hdle, 17" lg.	1.20
T7	Crowfoot Attachment, $\frac{1}{2}$ " opening	.65
T8	Crowfoot Attachment, $\frac{9}{16}$ " opening	.70
T9	Speeder	1.15
T27	Drag Link Soc.	.45
T28	Ratchet Handle with lug	2.15
T29A	Extra Lug for Ratchet	.30
T30	Hinge Handle	1.70
T31	Extension, 3" lg.	.45

SMALL SERIES SOCKETS

No.	Opening	Net Price	No.	Opening	Net Price
T10	$\frac{5}{16}$ " Double-Hexagon	\$0.40	T22	$1\frac{1}{16}$ " Double-Hexagon	\$0.45
T12	$\frac{3}{8}$ " Double-Hexagon	.40	T24	$\frac{3}{4}$ " Double-Hexagon	.45
T14	$\frac{7}{16}$ " Double-Hexagon	.40	TU14	$\frac{7}{16}$ " Double-Hexagon	1.35
T16	$\frac{1}{2}$ " Double-Hexagon	.40	TU16	$\frac{1}{2}$ " Double-Hexagon	1.35
T18	$\frac{9}{16}$ " Double-Hexagon	.40	TU18	$\frac{9}{16}$ " Double-Hexagon	1.50
T20	$\frac{5}{8}$ " Double-Hexagon	.40	TU20	$\frac{5}{8}$ " Double-Hexagon	1.50

Small Socket Series Sets

No. TD SET

A compact set for those who want quality with a minimum investment. All pieces are $\frac{3}{8}$ " square drive, made of *Chrome-Vanadium* Steel and Chrome-plated. Packed complete in a sturdy, black enameled metal case, the set contains one each of the following pieces—Nos. T12, T14, T16, T18 and T20 Double-Hexagon Sockets, No. T2 Offset Handle, No. T3 Universal Joint, No. T4 Extension Handle and No. T5 "T" Handle.

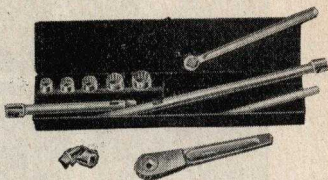


Net Price, in Metal Box.....\$5.60

Net Weight $2\frac{3}{4}$ lbs.

No. TD1 SET

The No. TD1 Set is more complete than the No. TD Set. All pieces are for $\frac{3}{8}$ " square drive, made of *Chrome-Vanadium* Steel and Chrome-plated—fully guaranteed. Packed complete in metal case finished in black, it contains the following—Nos. T12, T14, T16, T18 and T20 Double-Hexagon Sockets and the following Handles and Attachments—No. T2 Offset Handle, No. T3 Universal Joint, No. T4 Extension, No. T5 "T" Handle and No. T28 Ratchet Handle with lug.

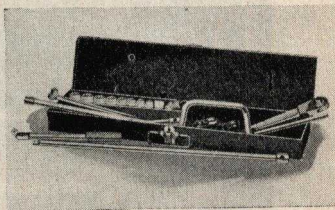


Net Price, in Metal Box.....\$7.55

Net Weight, $2\frac{3}{4}$ lbs.

No. TD2 SET

If you need a very complete set of $\frac{3}{8}$ " square drive Sockets and Attachments, this is the set you should have. Contains 19 pieces in a sturdy metal box so that all pieces can be kept together either on the job or in the shop. It contains Nos. T10, T12, T14, T16, T18, T20, T22 and T24 Double-Hexagon Sockets and the following Handles and Attachments—No. T2 Offset Handle, No. T3 Universal Joint, No. T4 Extension, Nos. T5 and T6 "T" Handles, Nos. T7 and T8 Crowfoot Attachments, No. T9 Speeder, No. T27 Drag Link Socket, No. T28 Ratchet Handle with lug and No. T30 Hinge Handle.

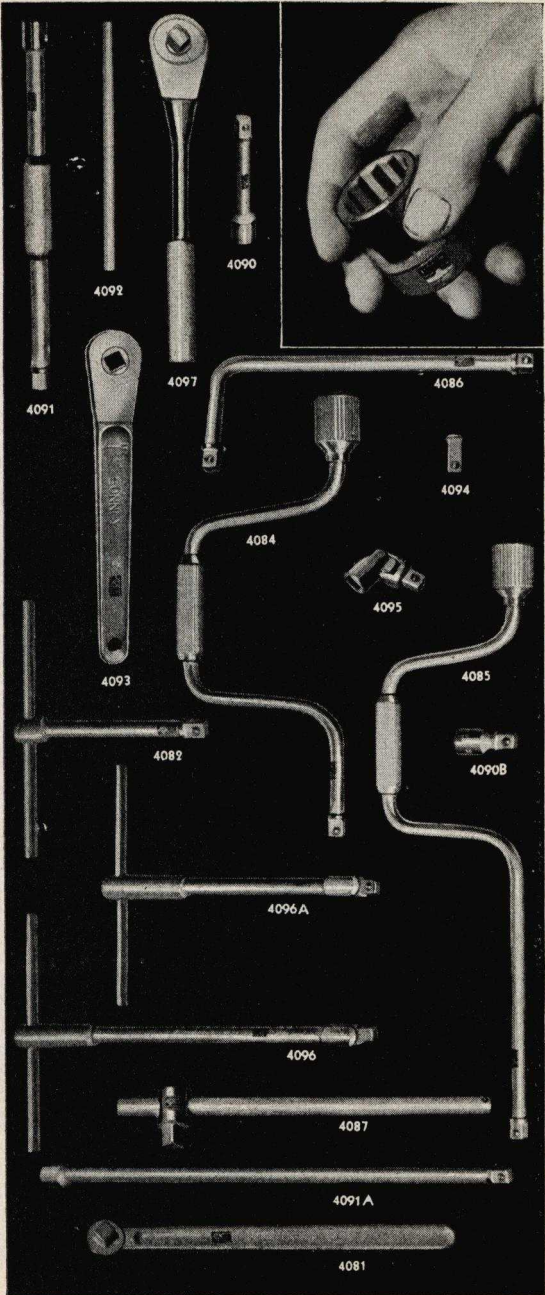


Net Price, in Metal Box.....\$14.80

Net Weight, $7\frac{1}{2}$ lbs.

Standard Socket Series

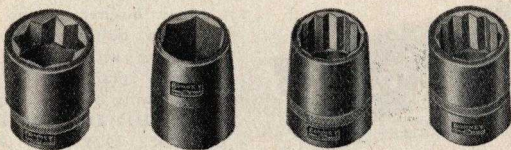
1/2 inch Square Drive



Standard Series Handles and Attachments

No.	Description	Net Price
4081	Offset Handle.....	\$1.20
4082	"T" Handle, 6" long.....	1.00
4084	Brace, 13" long.....	1.50
4085	Speeder, 20" long.....	1.65
4086	Offset Handle, 10" long.....	.65
4087	Sliding "T" Handle, 11" long.....	1.10
4087A	Sliding "T" Handle, 15" long.....	1.20
4090	Extension, 5" long.....	.60
4090B	Extension, 2" long.....	.60
4091	Extension, 10" long.....	1.20
4091A	Extension, 20" long.....	1.15
4092	Cross Handle for 10" Extension.....	.30
4093	Ratchet, with lug.....	2.70
4094	Extra lug for Ratchet.....	.40
4095	Universal Joint.....	1.50
4096	Hinge Handle, 15" long.....	2.25
4096A	Hinge Handle, 10" long.....	2.10
4097	Reversible Ratchet.....	3.35

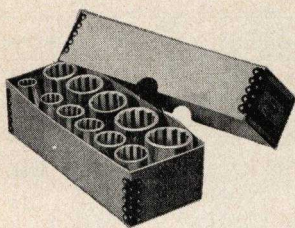
Standard Series Sockets



Opening	Double-square		Hexagon		Double-hexagon		Straight-Wall Double-hexagon	
	No.	Net Price	No.	Net Price	No.	Net Price	No.	Net Price
$3\frac{3}{8}$	4112	\$0.40	4012	\$0.40				
$7\frac{1}{16}$	4114	.40	4014	.40	D14	\$0.40	A14	\$0.50
$1\frac{1}{2}$	4116	.40	4016	.40	D16	.40	A16	.50
$9\frac{1}{16}$	4118	.40	4018	.40	D18	.40	A18	.50
$19\frac{3}{32}$			4019	.40	D19	.40	A19	.50
$5\frac{5}{8}$	4120	.40	4020	.40	D20	.40	A20	.50
$21\frac{3}{32}$			4021	.40	D21	.40		
$11\frac{1}{16}$	4122	.45	4022	.45	D22	.45	A22	.50
$3\frac{3}{4}$	4124	.50	4024	.50	D24	.50	A24	.60
$25\frac{3}{32}$			4025	.50	D25	.50	A25	.60
$13\frac{1}{16}$			4026	.50	D26	.50	A26	.60
$7\frac{7}{8}$	4128	.50	4028	.50	D28	.50	A28	.60
$15\frac{1}{16}$			4030	.60	D30	.60	A30	.65
$31\frac{1}{32}$			4031	.60	D31	.60	A31	.65
1	4132	.65	4032	.60	D32	.60	A32	.65
$11\frac{1}{16}$					D34	.65		
$1\frac{1}{8}$					D36	.75		
$1\frac{1}{4}$					D40	.80		

Standard Series Socket Sets

No. G SOCKET SET

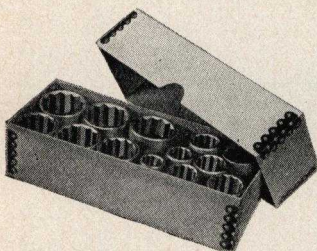


An excellent assortment of double-hexagon sockets for mechanics who want to replace or build up their present line. Used on all Standard Series $\frac{1}{2}$ " square drive Attachments and Handles. Contains one each of Standard Series Sockets Nos. D14, D16, D18, D19, D20, D22, D24, D25, D26, D28 and D30. Packed in cardboard box.

Net Price.....\$4.55

Net Weight, $2\frac{1}{2}$ lbs.

No. A1 SOCKET SET

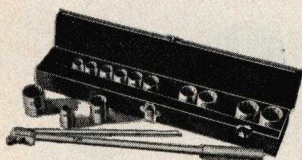


If you are looking for additional sockets to go into tight places, here's your set. It consists of 13 thin, straight-wall sockets with double-hexagon openings. The sockets included are Nos. A14, A16, A18, A19, A20, A22, A24, A25, A26, A28, A30, A31, A32 shown on page 7. All have $\frac{1}{2}$ " square drive. Packed in cardboard box.

Net Price.....\$6.65

Net Weight, $2\frac{1}{4}$ lbs.

No. D2 SOCKET SET



NET PRICES

In Cardboard Box\$7.50

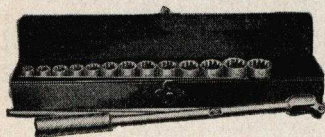
Net Weight, $5\frac{1}{8}$ lbs.

In Metal Box.....\$8.50

Net Weight, $6\frac{1}{4}$ lbs.

Many mechanics who are not ready to buy a more complete socket set will find the D2 Set extremely practical. It contains the following double-hexagon sockets Nos. D14, D16, D18, D19, D20, D21, D22, D24, D25, D26, D28, D30 and D32 shown on page 7 and No. 4096 Hinge Handle shown on page 6. Sockets and Handle have $\frac{1}{2}$ " square drive.

No. A2 SOCKET SET



NET PRICES

In Cardboard Box\$8.70

Net Weight $4\frac{1}{2}$ lbs.,

In Metal Box\$9.70

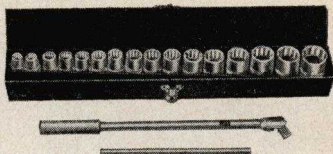
Net Weight, $6\frac{1}{4}$ lbs.

This convenient set of Standard Series straight-wall double-hexagon sockets is ideal for the mechanic who often works in confined places. It contains 13 Sockets Nos. A14, A16, A18, A19, A20, A22, A24, A25, A26, A28, A30, A31 and A32 shown on page 7 and No. 4096 Hinge Handle shown on page 6. All have $\frac{1}{2}$ " square drive.

Standard Series Sockets Sets (continued)

No. D3 SOCKET SET

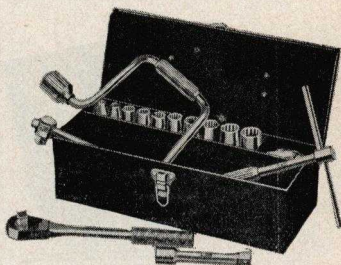
The D3 Set is the most complete, compact socket set for all-around work ever offered. Made of 'CV' Chrome-Vanadium Steel, Chrome-plated and polished, each piece will withstand the most severe use. Packed complete in black enameled metal box measuring 20½" x 2¾" x 2", it contains one each of the following Double-Hexagon Sockets—Nos. D14, D16, D18, D19, D20, D21, D22, D24, D25, D26, D28, D30, D32, D34, D36, D40 shown on page 7 and No. 4096 Hinge Handle with cross handle shown on page 6.



Net Price, in Metal Box.....\$10.55
Net Weight, 8½ lbs.

Nos. W, WD and WS SOCKET SETS

These sets were assembled expressly for mechanics who want to add to their line or later build a more complete set. Very practical and useful. They contain No. 4084 Brace, No. 4087 Sliding "T" Handle, No. 4090 Extension, No. 4091 Extension, No. 4092 Cross Handle for No. 4091, No. 4095 Universal Joint and No. 4097 Reversible Ratchet all shown on page 7, and ten Hexagon, Double-Hexagon or Straight-wall Double-Hexagon Sockets ranging from ¼" to ⅝" (except ⅜"). They are packed in enameled metal cases equipped with a handle so that they may be easily carried from place to place.



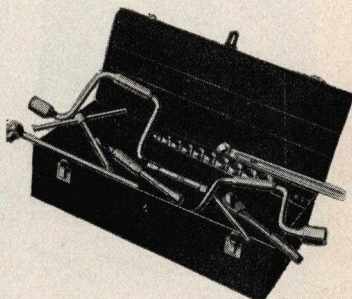
NET PRICES

No. W (Hexagon Sockets)....\$14.40
No. WD (Dble.-Hex. Sockets)... 14.40
No. WS ((Straight-wall Double Hexagon Sockets)..... 15.25
Net Weight, each set, 13 lbs.

Nos. R, RD and RS SOCKET SETS

These are complete sets of the Standard Socket Series. They contain one each of the following Handles and Attachments—Nos. 4081 Offset Handle, No. 4082 "T" Handle, No. 4084 Brace, No. 4085 Speeder, No. 4087 Sliding "T" Handle, No. 4090 Extension, No. 4091 Extension, No. 4092 Cross-Handle, No. 4095 Universal Joint and No. 4097 Reversible Ratchet and ten sockets ranging in size from ¼" to ⅝" (except ⅜"). Packed in strong, nicely finished metal boxes with carrying handle.

Net Weight, each set, 21 lbs.

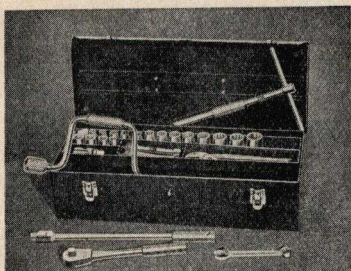


NET PRICES

No. R (Hexagon Sockets)\$18.65
No. RD (Dble.-Hex. Sockets) .. 18.65
No. RS (Straight-wall Double-Hexagon Sockets)..... 19.50

Standard Series Socket Sets (continued)

No. B WRENCH SET



Net Price (Complete).....\$24.55

Net Weight, 24 lbs.

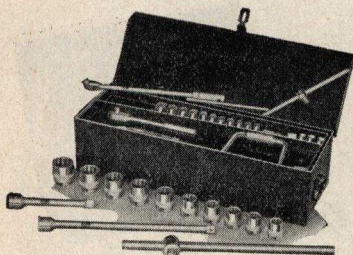
page 22 and No. 2570 Water Pump Plier shown on page 40.

An excellent tool kit for busy mechanics. Each of the thirty pieces has been carefully selected to do the greatest number of jobs. Packed in a strong metal box measuring 20" x 8" x 5".

Contents—Double-Hexagon Sockets Nos. D14, D16, D18, D19, D20, D21, D22, D24, D25, D26, D28, D30 and D32—Double-Square Sockets Nos. 4114, 4116, 4118 and 4120 all illustrated on page 7; No. 4001 Drag Link Socket shown on page 12. Handles and Attachments include No. 4085 Speeder, Nos. 4090 and 4091 Extension, No. 4092 Cross Handle, No. 4095 Universal Joint, No. 4096 Hinge Handle (without Cross Handle,) No. 4097 Reversible Ratchet with lug, all illustrated on page 6.

TuType Wrenches Nos. 3114, 3116, 3118 and 3120 illustrated on

No. RH SOCKET SET



Net Price, in Metal Box.....\$33.75

Net Weight, 48 lbs.

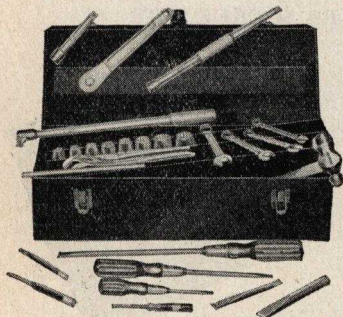
No. 4097 Reversible Ratchet with lug, all shown on page 6.

$\frac{3}{4}$ " Heavy-Duty Double-Hexagon Sockets Nos. HD30, HD31, HD32, HD34, HD36, HD40, HD44, HD46, HD48 and H52. Handles and Attachments for these sockets include Nos. 4290 and 4291 Extensions; No. 4287 Sliding "T" Handle. Heavy-Duty Sockets and Handles are shown on page 13.

Convenient for work on buses, trucks, tractors, farm and industrial machinery. Packed in a strong, Metal Box with removable tray. Ample space is provided for adding other sockets and tools.

Contents— $\frac{1}{2}$ " Square Drive Double-Hexagon Sockets Nos. D14, D16, D18, D19, D20, D21, D22, D24, D25, D26 and D28. $\frac{1}{2}$ " Square Drive Double-Square Sockets Nos. 4114, 4116 and 4118 all shown on page 7; No. 4001 Drag Link Socket shown on page 12. Handles and Attachments for $\frac{1}{2}$ " Square Drive include No. 4084 Brace; No. 4087 Sliding "T" Handle; Nos. 4090 and 4091 Extensions; No. 4092 Cross Handle for No. 4091; No. 4095 Universal Joint; No. 4096 Hinge Handle;

No. J SOCKET and TOOL SET



Net Price, in Metal Box.....\$20.50

Net Weight, 21 lbs.

C4 shown on page 50; Center Punch No. C34 shown on page 51; Screw Driver No. E02 shown on page 48; Screw Drivers Nos. W03, W06 and W010 shown on page 47 and Hammer No. PH7 shown on page 46.

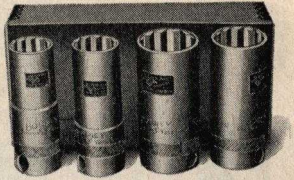
An inexpensive set of the highest quality, designed for the mechanic just starting out. The large, roomy, metal box has a removable tray for keeping your tools separated and ample room to add tools from time to time. The box measures 21 $\frac{1}{2}$ " long, 8" wide and 5" high. Contents were carefully selected to handle the greatest variety of repair jobs with a minimum number of tools.

Contents— $\frac{1}{2}$ " Square Drive Double-Hexagon Sockets Nos. D14, D16, D18, D20, D22, D24, D26 and D28, shown on page 7. $\frac{1}{2}$ " Square Drive Handles and Attachments—Nos. 4090 and 4091 Extensions; No. 4093; Ratchet (not reversible) with lug and No. 4096 Hinge Handle, all illustrated on page 6.

TuType Wrenches Nos. 3114, 3116, 3118 and 3120 shown on page 22; No. 2570 Water Pump Plier shown on page 40; Flat Chisels Nos. C2 and

Standard Series Extra-Deep Sockets

Bonney Extra-Deep Sockets find many applications in automotive work and are especially suitable for removing and replacing spark plugs. They are for $\frac{1}{2}$ " square drive, are $3\frac{1}{4}$ " long and have Double-Hexagon openings. Made of *Chrome-Vanadium Steel* and *Chrome-plated*.



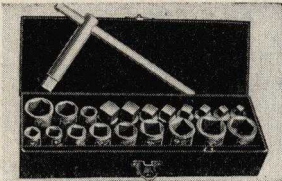
No. LD SPARK PLUG SET

This set is decidedly popular with mechanics. It consists of four sockets Nos. LD26T, LD28T, LD32 and LD36 with openings shown in the table to the left. They may be used with any $\frac{1}{2}$ " square drive handle or attachment.

NET PRICE
In Cardboard Box . . . \$2.85

No.	Openings	Length	Dia.	Net Price
LD16	$\frac{1}{2}$	$3\frac{1}{4}$	$\frac{3}{4}$	\$0.65
LD18	$\frac{5}{16}$	$3\frac{1}{4}$	$1\frac{1}{16}$	.65
LD20	$\frac{5}{8}$	$3\frac{1}{4}$	$\frac{7}{8}$	.70
LD22	$1\frac{1}{16}$	$3\frac{1}{4}$	$1\frac{1}{16}$	.70
LD24	$\frac{3}{4}$	$3\frac{1}{4}$	$1\frac{1}{4}$	.70
LD25	$1\frac{1}{8}$	$3\frac{1}{4}$	$1\frac{1}{4}$	.70
LD26T	$1\frac{1}{8}$	$3\frac{1}{4}$	$1\frac{1}{4}$	.70
LD28	$\frac{7}{8}$	$3\frac{1}{4}$	$1\frac{1}{4}$	.70
LD28T	$\frac{7}{8}$	$3\frac{1}{4}$	$1\frac{1}{4}$	.70
LD30	$1\frac{1}{8}$	$3\frac{1}{4}$	$1\frac{1}{4}$	.80
LD32	1	$3\frac{1}{4}$	$1\frac{3}{8}$	.85
LD32T	1	$3\frac{1}{4}$	$1\frac{3}{8}$	.85
LD34	$1\frac{1}{8}$	$3\frac{1}{4}$	$1\frac{7}{8}$	.85
LD36	$1\frac{1}{8}$	$3\frac{1}{4}$	$1\frac{1}{2}$	.95

No. K SET of DRAIN PLUG SQUARES



No.	Size	Net Price
P10	$\frac{5}{16}$	\$0.40
P12	$\frac{3}{8}$	.40
P14	$\frac{7}{16}$	.40
P16	$\frac{1}{2}$	.45
P18	$\frac{9}{16}$	.45
P20	$\frac{5}{8}$	.45
P22	$1\frac{1}{16}$	.50
P24	$\frac{3}{4}$	.50

Convenient for use on Drain Plugs in crank case, transmission and differential housing of many cars. The K Set consists of eight Drain Plug Squares and twelve Sockets, also a T handle with $\frac{1}{2}$ " square drive. Packed in Metal Box.

NET PRICE . . . \$6.85

CHART OF SPARK PLUG SOCKETS for PASSENGER CARS

Make of Car	1934	1935	1936	Make of Car	1934	1935	1936
Auburn 8-50x & 12 cyl.	LD32			Graham 6&8	LD32	LD32	LD32
Auburn 6&8 cyl.	LD26T	LD26T	LD26T	Hudson	LD26T	LD26T	LD26T
Austin	LD32	LD32	LD32	Hupmobile	LD32	LD32	LD32
Buick	LD28T	LD28T	LD28T	Lafayette	LD32	LD32	LD32
Cadillac 8cyl.	LD32	LD32	LD26T	LaSalle	LD32	LD26T	LD26T
Cadillac 12 & 16 cyl.			LD32	Lincoln	LD32	LD32	LD32
Chevrolet				Lincoln Zephyr			LD26T
Std. & Master	LD26T	LD26T	LD26T	Marmon 16 cyl.	LD32		
Chrysler	LD26T	LD26T	LD26T	Nash 400		LD32	LD32
Continental	LD32			Nash—			
Cord			LD26T	other models	LD26T	LD26T	LD26T
Cunningham	LD32	LD36		Oldsmobile	LD32	LD32	LD32
De Soto	LD26T	LD26T	LD26T	Packard	LD26T	LD26T	LD26T
Dodge	LD26T	LD26T	LD26T	Pierce Arrow	LD26T	LD26T	LD26T
Dusenber	LD32	LD32	LD32	Plymouth	LD26T	LD26T	LD26T
Ford 4 cyl.	LD36			Pontiac	LD26T	LD26T	LD26T
Ford 8 cyl.	LD32	LD32	LD32	Reo	LD32	LD32	LD32
Franklin	LD32			Rolls Royce	LD32	LD32	
Graham Cavalier & Super-charger			LD26T	Scarab			LD32
				Studebaker	LD32	LD32	LD32
				Stutz	LD32	LD32	LD32
				Terraplane	LD26T	LD26T	LD26T
				Willys	LD32	LD32	LD32

BONNEY Special Sockets



STUD WRENCH

No. 2591 for removing and setting studs. Takes studs from 1/4" to 3/4". Has 1/2" Square Drive. Chrome-Vanadium Steel and Chrome-plated.
NET PRICE..... \$1.50



CONNECTING ROD SOCKET for FORD V8

No. F18 Special Socket for adjusting Ford V8 connecting rod bearing cap nuts. It has a 1/16" double-hexagon opening and 1/2" square drive. The nose of the socket is very thin to make this adjustment easy. Made from Chrome-Vanadium Steel and Chrome-plated.
NET PRICE\$0.55



MAIN BEARING SOCKETS for CHEVROLETS

No. F22 for 1933 Model center and rear main bearing cap screws. It has an 1/16" hexagon opening.
No. F23 for 1933 Model front main bearing cap screws. Has 1/16" hexagon opening. Both have 1/2" square drive. Chrome-Vanadium Steel.
NET PRICE, No. F22 or F23.....\$0.40



DRAG LINK SOCKETS

No. 4001—Suitable for passenger cars. Width of blade, 1 1/8", with 1/2" square drive. Net Price \$0.60
No. 4002 for use on trucks. Width of blade 1 1/4", with 1/2" square drive. Net Price.....\$0.80

CROWFOOT ATTACHMENTS

Crowfoot attachments are useful for making adjustments in "hard-to-get-at" places. Equipped with 1/2" square drive.

No.	Openings	Net Price
2866	1/2" Double-hexagon.....	\$0.50
2868	9/16" Double-hexagon.....	.60
2870	5/8" Double-hexagon.....	.65
2872	11/16" Double-hexagon.....	.70
2874	3/4" Double-hexagon.....	.80

OPEN-END CROWFOOT ATTACHMENTS

Special Crowfoot open-end attachments are made of Chrome-Vanadium Steel. Designed for use with handles having 1/2" standard square drive.

No.	Openings	Net Price
6603	5/8" Open-end	\$0.65
6603A	9/16" Open-end	.65
6603B	11/16" Open-end	.65
6606	3/4" Open-end	.75
6606A	15/16" Open-end	.75
6606B	7/8" Open-end	.75

MALE and FEMALE ADAPTORS

This series of 'CV' Chrome-Vanadium Steel Adaptors is designed with square female openings. All have square male drive. They are Chrome-plated.

No.	Openings	Net Price
4296	5/8" sq. Female & 3/4" sq. Male.	\$0.80
4297	3/4" sq. Female & 5/8" sq. Male.	.80
4298	1/2" sq. Female & 3/4" sq. Male.	.80
4299	3/4" sq. Female & 1/2" sq. Male.	.80
4204	3/4" sq. Female & 7/8" sq. Male.	.80
4206	1/2" sq. Female & 3/8" sq. Male.	.80
4208	1/2" sq. Female & 5/8" sq. Male.	.80
4209	5/8" sq. Female & 1/2" sq. Male.	.80
4210	7/8" sq. Female & 3/4" sq. Male.	1.00
4211	3/4" sq. Female & 1" sq. Male.	1.00

RATCHET HANDLE ADAPTORS

This series of Adaptors is designed for use with Ratchet Handles. Made of Chrome-Vanadium Steel and chrome-plated.

No.	Openings	Net Price
4201	1/2" square & 5/8" square	\$0.80
4202	1/2" square & 3/4" square	.85
4203	3/4" square & 7/8" square	.90
4205	5/8" square & 3/4" square	.85
4207	3/8" square & 1/2" square	.80
4212	3/4" square & 1" square	1.00



Heavy-Duty Socket Series

3/4 inch Square Drive

The Bonney Heavy-Duty Series is favored by mechanics who repair trucks buses, tractors and farm machinery. It is also widely used in industrial work. Made of *Chrome-Vanadium Steel* and *Chrome-plated*

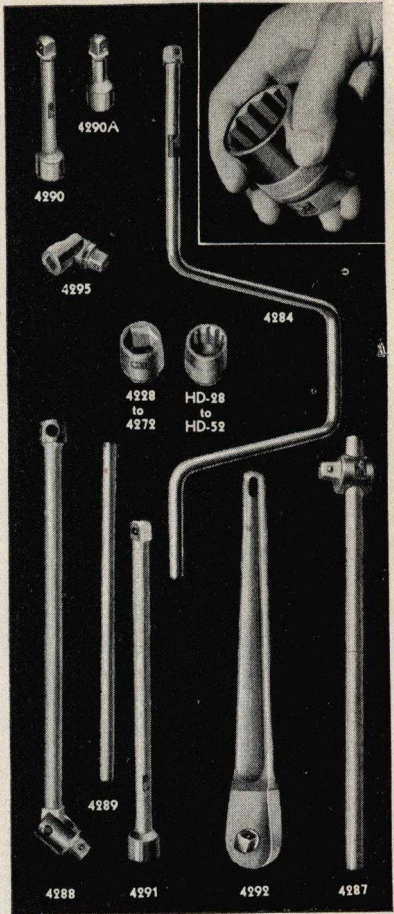
Hexagon			Dble.-Hex.	
Ope.	No.	Net Price	No.	Net Price
7/8	4228	\$0.60	HD28	\$0.60
1 1/16	4230	.65	HD30	.65
1 1/8	4231	.65	HD31	.65
1 1/4	4232	.65	HD32	.65
1 1/2	4234	.80	HD34	.80
1 3/8	4236	.80	HD36	.80
1 1/2	4238	.80	HD38	.80
1 3/4	4240	.90	HD40	.90
1 7/8	4242	.90	HD42	.90
2	4244	.90	HD44	.90
2 1/8	4246	1.00	HD46	1.00
2 1/4	4248	1.00	HD48	1.00
2 1/2	.....	.....	HD50	1.10
2 3/4	4252	1.20	HD52	1.20
3	4254	1.50	.....	.....
3 1/4	4256	1.50	.....	.....
3 1/2	4258	1.65	.....	.....
3 3/4	4260	1.65	.....	.....
4	4264	2.00	.....	.....
4 1/8	4266	2.35	.....	.....
4 1/4	4268	2.50	.....	.....
4 1/2	4270	2.70	.....	.....
4 3/4	4272	3.00	.....	.....

Double-Square

Opening	No.	Net Price
7/8	S4228	\$1.35
1	S4232	1.50
1 1/8	S4234	1.65
1 1/4	S4240	2.00
1 1/2	S4246	2.35

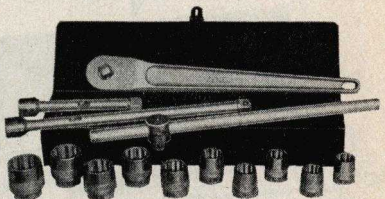
HEAVY DUTY HANDLES and ATTACHMENTS

No.	Description	Net Price
4284	Brace	\$3.75
4287	Sliding 'T' Hdle 20" long	2.15
4288	Hinge Handle, 22" long	2.70
4289	Cross Handle, 16 3/8" long for No. 4288	.65
4290	Ext., 8 1/2" long	1.50
4290A	Ext., 4" long	1.30
4291	Ext., 17" long	1.85
4292	Reversible Rat- chet Hdle. 20" lg	6.65
4295	Universal Joint	4.55



HERCULES HEAVY-DUTY SOCKET SETS Nos. H and HD

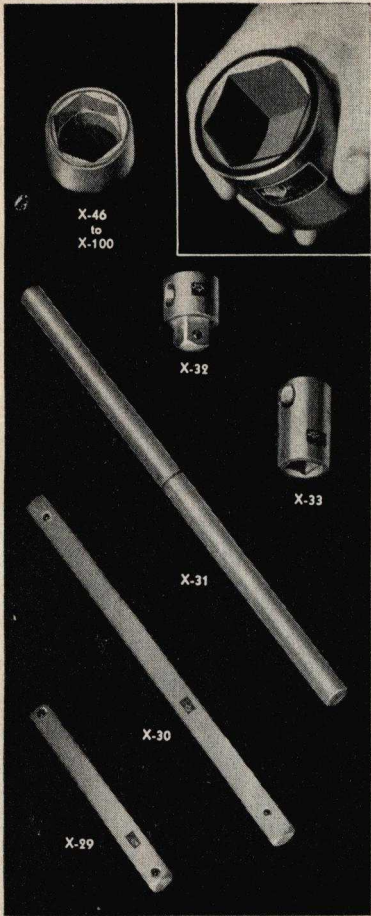
Every mechanic who regularly works on trucks, buses, tractors, farm or industrial machinery should own one of these sets. They make adjustments of large nuts a "cinch" because they are designed for extremely hard service. Contain ten sockets with openings ranging from 1 1/16" to 1 5/8" (except 1 3/16", 1 5/16" and 1 7/16") and No. 4287 Sliding "T" Handle; No. 4290 Extension; No. 4291 Extension; and No. 4292 Reversible Ratchet.



NET PRICES

No. H Set (Hexagon Sockets)	\$20.45
No. HD Set (Double-Hexagon Sockets)	20.45
Net Weight, each set, 27 lbs.	

Extra-Heavy Duty Socket Series
1 inch Square Drive



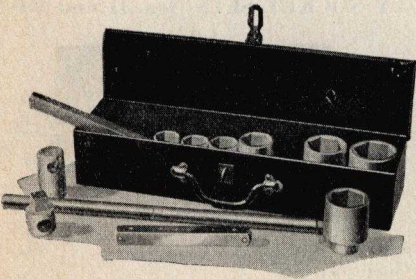
EXTRA-HEAVY DUTY
HEXAGON SOCKETS

No.	Size Opening	Net Price
X46	1 7/16	\$1.25
X48	1 1/2	1.50
X52	1 5/8	1.65
X58	1 13/16	2.35
X64	2	2.70
X70	2 3/16	3.50
X72	2 1/4	3.70
X74	2 5/16	4.00
X76	2 3/8	4.15
X78	2 7/16	5.00
X80	2 1/2	5.85
X82	2 9/16	6.65
X84	2 5/8	7.50
X86	2 11/16	8.35
X88	2 3/4	9.15
X94	2 15/16	12.00
X100	3 1/8	12.35

Extra-Heavy Duty
Handles and Attachments

No.	Description	Net Price
X29	Extension, 9" long	\$1.30
X30	Extension, 18" long	1.95
X31	Sliding Bar, 22" long	1.00
X32	Drive Head, Male	1.65
X33	Drive Head, Female	1.65

EXTRA-HEAVY DUTY SOCKET SET No. XH



The exceptionally large nuts and bolts on trucks, buses, tractors, etc. require heavy-duty wrenches. Here is the set for these jobs. Also widely used in industrial work. Contains seven Hexagon Sockets Nos. X46, X48, X52, X58, X64, X70, X76 and attachments Nos. X29, X30, X31, X32 and X33 listed above. Packed in strong metal case measuring 23" long, 5 1/2" wide, 4 1/2" high.

NET PRICE.....\$24.95

Net Weight, 42 lbs.

Solid Socket Wrenches

Bonney Solid Socket Wrenches are designed to provide the user with a wrench that will remove the most stubborn nut. They are forged in one piece from *Chrome-Vanadium Steel* to give them extra strength. The outside diameters of the Sockets are held down to permit the greatest possible clearance in operation. All have hexagon openings and are chrome-plated

OFFSET TYPE

Wrench No.	Hex. Openings	Length	Handle Offset	Net Price
2101	$\frac{7}{16}$	8	2	\$0.85
2102	$\frac{1}{2}$	8	2	
2103	$\frac{9}{16}$	8	2	
2104	$\frac{19}{32}$	10	2	
2105	$\frac{5}{8}$	10	2	
2106	$\frac{11}{16}$	10	2	
2107	$\frac{3}{4}$	10	2	
2108	$\frac{25}{32}$	10	$2\frac{1}{4}$	1.00
2109	$\frac{13}{16}$	10	$2\frac{1}{4}$	
2110	$\frac{7}{8}$	10	$2\frac{1}{4}$	
2270S	$\frac{15}{16}$	$9\frac{1}{8}$	$2\frac{3}{16}$	1.95
2270A	$\frac{31}{32}$	$9\frac{1}{8}$	$2\frac{3}{16}$	
2270D	1	$9\frac{1}{8}$	$2\frac{3}{16}$	
2271A	$1\frac{1}{16}$	10	$2\frac{3}{8}$	2.25
2271D	$1\frac{1}{8}$	10	$2\frac{3}{8}$	
2273A	$1\frac{1}{4}$	$11\frac{5}{8}$	$2\frac{3}{4}$	3.00
2274D	$1\frac{3}{8}$	$12\frac{3}{8}$	$2\frac{7}{8}$	3.35
2275A	$1\frac{7}{16}$	$13\frac{1}{4}$	$3\frac{1}{8}$	3.75
2275D	$1\frac{1}{2}$	$13\frac{1}{4}$	$3\frac{1}{8}$	
2276A	$1\frac{5}{8}$	$14\frac{7}{8}$	$3\frac{1}{2}$	4.35
2277A	$1\frac{13}{16}$	$16\frac{1}{2}$	$3\frac{7}{8}$	4.90

"T" TYPE

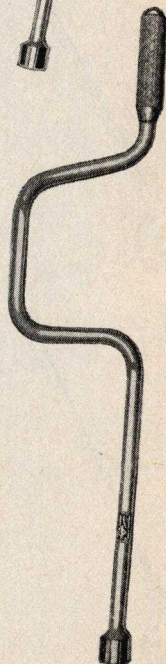
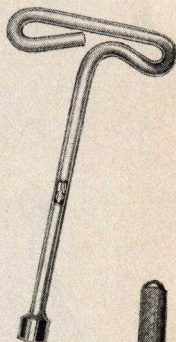
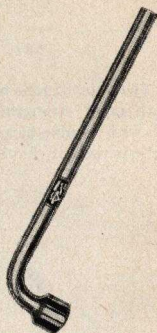
Wrench No.	Hex. Openings	Extreme Length	Net Price
2201	$\frac{7}{16}$	12	\$0.95
2202	$\frac{1}{2}$	12	
2203	$\frac{9}{16}$	12	
2204	$\frac{19}{32}$	12	
2205	$\frac{5}{8}$	12	
2206	$\frac{11}{16}$	12	
2207	$\frac{3}{4}$	12	
2208	$\frac{25}{32}$	12	1.20
2209	$\frac{13}{16}$	12	
2210	$\frac{7}{8}$	12	

BRACE TYPE — 20 inches — 2400 Series

Wrench No.	Hex. Openings	Length	Length of Shank	Net Price
2401	$\frac{7}{16}$	20	10	\$1.40
2402	$\frac{1}{2}$	20	10	
2403	$\frac{9}{16}$	20	10	
2404	$\frac{19}{32}$	20	10	
2405	$\frac{5}{8}$	20	10	
2406	$\frac{11}{16}$	20	10	
2407	$\frac{3}{4}$	20	10	
2408	$\frac{25}{32}$	20	10	1.60
2409	$\frac{13}{16}$	20	10	
2410	$\frac{7}{8}$	20	10	

BRACE TYPE — 30 inches — 2500 Series

2503	$\frac{9}{16}$	30	20	\$1.75
2505	$\frac{5}{8}$	30	20	



'CV' Chrome-Vanadium and ZENEL Box Wrenches

(DOUBLE-HEXAGON OPENINGS)

The type of jobs on which box wrenches are used require thin walled openings with great strength. Bonney *Chrome-Vanadium* and **ZENEL** Box Wrenches all with double-hexagon openings, meet these requirements. They are strong, light in weight, have panelled handles and are beautifully finished.

'CV' Chrome-Vanadium Short Type

Both Ends Offset—Different Openings Each End

Wrench No.	U.S.S. Bolt Size	S.A.E. Std. Screw & Nut	Openings	Length	Net Price
2804	.....	& 1/4	3/8 & 7/16	5 1/8	\$0.40
2805	1/4 &	5/16 & 3/8	1/2 & 9/16	5 1/2	.50
2806	.....	3/8 & 7/16	9/16 & 5/8	6	.55

ZENEL Short Type

Both Ends Offset—Different Openings Each End

Z	U.S.S. Bolt Size	S.A.E. Std. Screw & Nut	Openings	Length	Net Price
2804	.....	& 1/4	3/8 & 7/16	5 1/8	\$0.55
2804A	5/16 &	& 1/4	13/16 & 7/16	5 1/8	.55
2805	1/4 &	5/16 & 3/8	1/2 & 9/16	5 1/2	.60
2806	.....	3/8 & 7/16	9/16 & 5/8	6	.65

'CV' Chrome-Vanadium Long Type

Both Ends Offset—Different Openings Each End

2804L	.....	& 1/4	3/8 & 7/16	8 1/2	\$0.45
2805L	1/4 &	5/16 & 3/8	1/2 & 9/16	9	.50
2806L	.....	3/8 & 7/16	9/16 & 5/8	9 1/2	.55
2807	.....	1/4 & 1/2	5/8 & 3/4	8 1/2	.60
2808	& 1/2	1/2 & 9/16	3/4 & 7/8	10	.70
2809	1/2 &	9/16 & 5/8	7/8 & 15/16	11 1/4	.85
2810A	& 9/16	5/8 & 3/4	15/16 & 1	12 1/2	1.05
2810	.....	5/8 & 11/16	15/16 & 1	12 1/2	1.05
2811E	1/2 & 5/8	5/8 & 3/4	7/8 & 1 1/16	14 1/2	1.45
2811B	& 5/8	5/8 & 3/4	15/16 & 1 1/16	14 1/2	1.45
2811C	.....	5/8 & 3/4	15/16 & 1 1/8	14 1/2	1.45
2811A	& 5/8	11/16 & 3/4	1 & 1 1/16	14 1/2	1.45
2811	.....	11/16 & 3/4	1 & 1 1/8	14 1/2	1.45
2812B	5/8 & 3/4	3/4 & 7/8	1 1/16 & 1 1/4	16 1/2	1.80
2812	5/8 &	7/8 & 1	1 1/4 & 1 3/8	16 1/2	1.80
2812A	3/4 & 7/8	7/8 & 1	1 1/4 & 1 7/8	16 1/2	1.80
2812C	& 3/4	& 7/8	1 1/8 & 1 1/4	16 1/2	1.80

ZENEL Long Type

Both Ends Offset—Different Openings Each End

Z					
2804L	.....	& 1/4	3/8 & 7/16	8 1/2	\$0.70
2805L	1/4 &	5/16 & 3/8	1/2 & 9/16	9	.75
2806L	.....	3/8 & 7/16	9/16 & 5/8	9 1/2	.85
2807	.....	1/4 & 1/2	5/8 & 3/4	8 1/2	.90
2808	& 1/2	1/2 & 9/16	3/4 & 7/8	10	1.00

ZENEL Long Type

One End Offset—Same Openings Both Ends

Z					
2814	.....	1/4	7/16	8	\$0.65
2816	1/4	5/16	1/2	9	.70
2818	.....	3/8	9/16	9 1/2	.75
2820	.....	7/16	5/8	10	.80
2822	3/8	.....	11/16	11	.85
2824	.....	1/2	3/4	11 1/2	.90
2825	7/16	.....	15/16	12	.95
2826	.....	.....	15/16	12	.95
2828	1/2	9/16	7/8	12 3/4	1.05
2830	.....	5/8	15/16	13 1/2	1.20
*2832	.....	11/16	1	15	1.50
*2834	5/8	3/4	1 1/16	17 1/2	1.65
*2836	.....	.....	1 1/8	17 1/2	1.85
*2839	3/4	7/8	1 1/4	17 1/2	2.05

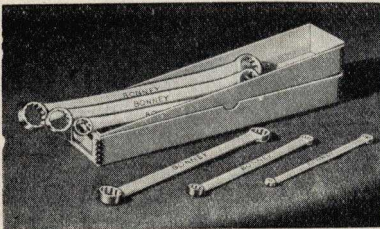
*These Wrenches made of *Chrome-Vanadium* Steel.

ZENEL Box Wrenches

The No. 2890 Series Bonney Box Wrenches are designed for work in locations with low over-head clearance. Their heads are at angles of from 10° to 15° depending on the length of the wrench. Either side of the head may be applied. No. 2890 Series Box Wrenches have double-hexagon openings, are forged of ZENEL Steel and Chrome-plated.

No.	Openings	Length	Net Price
2890	$\frac{3}{8}$ & $\frac{7}{16}$	7 $\frac{5}{8}$	\$0.55
2891	$\frac{1}{2}$ & $\frac{9}{16}$	8 $\frac{5}{8}$	.60
2892	$\frac{5}{8}$ & $1\frac{1}{16}$	9 $\frac{5}{8}$	.70
2893	$\frac{3}{4}$ & $1\frac{3}{16}$	11	.85
2894	$\frac{7}{8}$ & $1\frac{5}{16}$	12 $\frac{3}{8}$	1.00
2895	1 & $1\frac{1}{16}$	14 $\frac{1}{4}$	1.20
2896	$1\frac{1}{8}$ & $1\frac{3}{8}$	16	1.50
2897	$1\frac{1}{4}$ & $1\frac{7}{16}$	18	1.80

No. 39 BOX WRENCH SET



For the mechanic who wants the finest box wrenches that can be bought, this assortment meets every demand. The set contains six wrenches, consisting of one each

Nos. 2890	Nos. 2893
2891	2894
2892	2895

all listed above.

NET PRICE in Cardboard Box.....\$4.90



SINGLE HEAD BOX WRENCHES



Bonney Single Head Box Wrenches are forged of a special alloy steel, carefully heat-treated to withstand hard usage. Their large openings and long handles make them especially adapted to work on trucks, buses, tractors, industrial and farm machinery. They are Chrome-plated with polished heads, having double hexagon openings.

Wrench No.	U.S.S. Bolt Size	S.A.E. Standard Screw & Nut	Openings	Length	Net Price
1808	$\frac{3}{4}$	$\frac{7}{8}$	$1\frac{1}{4}$	11 $\frac{1}{2}$	\$1.40
1808A			$1\frac{5}{16}$	11 $\frac{1}{2}$	1.40
1809	$\frac{7}{8}$	1	$1\frac{7}{16}$	13 $\frac{3}{8}$	1.90
1809A			$1\frac{1}{2}$	13 $\frac{3}{8}$	1.90
1810	1	$1\frac{1}{8}$	$1\frac{5}{8}$	15 $\frac{1}{4}$	2.50
1810A			$1\frac{11}{16}$	15 $\frac{1}{4}$	2.50
1811	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{15}{16}$	17 $\frac{7}{8}$	3.35
1812	$1\frac{1}{4}$	$1\frac{3}{8}$	2	19	4.35
1813	$1\frac{3}{8}$	$1\frac{1}{2}$	$2\frac{3}{16}$	21	5.35

Box Wrench Sets

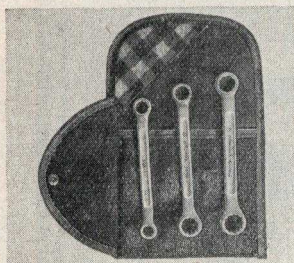


No. Z31 SET

Every mechanic should own this set. The six double-end Box Wrenches (one end offset) Nos. Z2814, Z2816, Z2818, Z2820, Z2822 and Z2824 have wide ranges of application. Their openings are from $\frac{1}{16}$ " to $\frac{3}{4}$ ".

NET PRICES

In Cardboard Box \$4.60
In Leatherette Roll 5.10



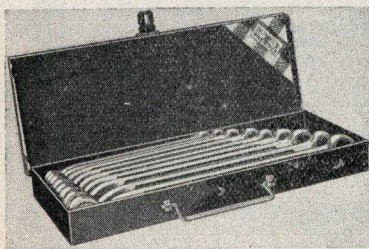
Nos. 29 and Z29 SETS

Two handy little sets. They each contain three short, double-end Box Wrenches. No. 29 Set includes wrenches Nos. 2804, 2805 and 2806 of *Chrome-Vanadium* Steel. No. Z29 Set contains Wrenches Nos. Z2804, Z2805 and Z2806 made of ZENEL Steel.

NET PRICES

No. 29 Set in Cardboard Box ... \$1.45
No. 29 Set in Leatherette Roll .. 1.75
No. Z29 Set in Cardboard Box .. 1.80
No. Z29 Set in Leatherette Roll . 2.10

No. Z33 SET



The nine Bonney Box Wrenches in the No. Z33 Set fill all the requirements of the mechanic for this type wrench. They have one end offset and the same opening in either end. Nos. Z2814, Z2816, Z2818, Z2820, Z2822, Z2824, Z2826, Z2828 and Z2830 make up the set . . . openings range from $\frac{1}{16}$ " to $\frac{15}{16}$ ". All are made of ZENEL Steel and are Chrome-plated.

NET PRICES

In Cardboard Box . . . \$7.80
In Metal Box 9.15

No. Z34 SET



This trim, compact set of Bonney Box Wrenches is complete and popular. It contains 12 double-end Box Wrenches, nine of the long type with one end offset and three of the short type with both ends offset. Made of ZENEL Steel. All have double-hexagon openings. Included are Nos. Z2814, Z2816, Z2818, Z2820, Z2822, Z2824, Z2826, Z2828, Z2830, Z2804, Z2805, Z2806.

NET PRICES

In Cardboard Box \$9.60
In Metal Box 10.95

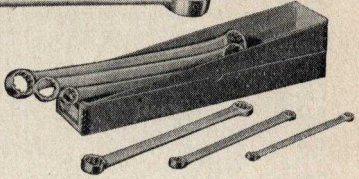
Tu Hex Box Wrenches

No. 142 SERIES



TuHex Box Wrenches have been developed to meet the demand for a line of quality wrenches at a popular price.

The No. 142 Series is designed for work in locations with low over-head clearance. Their heads are at angles of from 10° to 15° depending on the length of the wrench. They have double-hexagon openings and are forged of *Chrome-Vanadium* Steel, with plated finish.



No. 140 SET

This set contains one each of the six wrenches in the No. 142 Series. Each Set is packed in a substantial cardboard box.

NET PRICE.....\$3.25

No.	Openings	Length	Net Price
142	$\frac{3}{8}$ & $\frac{7}{16}$	7 $\frac{5}{8}$	\$0.35
144	$\frac{1}{2}$ & $\frac{9}{16}$	8 $\frac{5}{8}$	.40
146	$\frac{5}{8}$ & $\frac{11}{16}$	9 $\frac{5}{8}$	.50
148	$\frac{3}{4}$ & $\frac{13}{16}$	11	.60
150	$\frac{7}{8}$ & $\frac{15}{16}$	12 $\frac{3}{8}$	.70
152	1 & $1\frac{1}{16}$	14 $\frac{1}{4}$	.80

TU HEX *Chrome-Vanadium* OFFSET BOX WRENCHES

SHORT TYPE

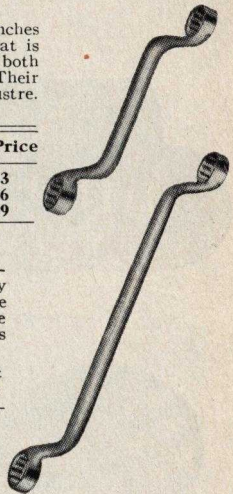
Drop-forged of *Chrome-Vanadium* Steel, these wrenches meet your demand for a low-priced box wrench that is strong but light in weight. The short type wrench has both ends offset and different openings in each end. Their heads are buffed and plated to a high, permanent lustre. All have oval handles and double-hexagon openings.

No.	Openings	Length	Net Price
176	$\frac{3}{8}$ & $\frac{7}{16}$	4 $\frac{1}{2}$	\$0.33
177	$\frac{1}{2}$ & $\frac{9}{16}$	5 $\frac{1}{4}$	.36
178	$\frac{5}{8}$ & $\frac{11}{16}$	6	.39

LONG TYPE

Long type, TuHex Box Wrenches, meet every requirement for low-priced wrenches of this type. They are drop-forged from *Chrome-Vanadium* Steel and are exceptionally strong and light in weight. They are plated to a high, permanent lustre, have buffed heads and comfortable, oval handles.

No.	Openings	Length	Net Price
180	$\frac{3}{8}$ & $\frac{7}{16}$	7 $\frac{5}{8}$	\$0.36
181	$\frac{1}{2}$ & $\frac{9}{16}$	8 $\frac{5}{8}$	.39
182	$\frac{5}{8}$ & $\frac{11}{16}$	9 $\frac{3}{4}$	.45
183	$\frac{3}{4}$ & $\frac{25}{32}$	11 $\frac{1}{8}$	.50
184	$\frac{13}{16}$ & $\frac{7}{8}$	12 $\frac{1}{2}$	.60
185	$\frac{15}{16}$ & 1	14 $\frac{1}{4}$	.72



No. 190 SET

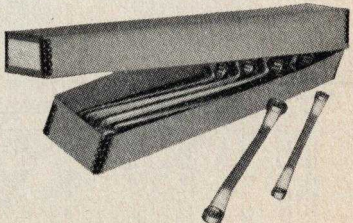
The three Short Type Offset Box Wrenches, Nos. 176, 177 and 178 which make up this set are very useful for work on starters, generators, water pumps, manifold nuts etc. Packed in strong, cardboard box.

NET PRICE.....\$1.05

No. 191 SET

You will find this set contains a full assortment of box wrenches in the sizes most required. Especially adapted to making adjustments in "hard-to-get-at" places. One each Nos. 180, 181, 182, 183, 184 and 185 are included. They have double-hexagon openings and are forged from *Chrome-Vanadium* Steel. Packed in strong, cardboard box.

NET PRICE.....\$3.00

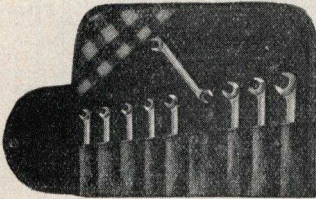


Electrical and Ignition Wrenches and Sets

ZENEL ELECTRICAL WRENCHES

Wrench No.	Openings		Length	Thick-ness	Net Price
	15° End	60° End			
E14	13/64	15/64	3	7/64	\$0.40
E16	15/64	18/64	3	7/64	.40
E18	7/32	1/4	3	7/64	.40
E20	1/4	7/32	3	7/64	.40
E22	9/32	5/16	3 1/2	1/8	.45
E24	5/16	9/32	3 1/2	1/8	.45
E26	11/32	3/8	4	9/64	.50
E28	3/8	11/32	4	9/64	.50
E30	7/16	1/2	4 1/2	5/32	.55

No. 16 SET

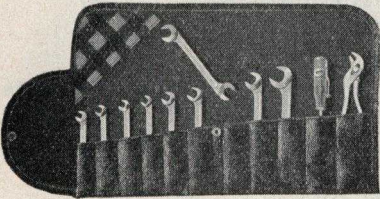


The heads of Bonney Electrical Wrenches are at angles of 15° and 60°. This, and because the same openings are provided at both angles, offers the mechanic a very practical line of wrenches. The No. 16 Set contains one each of Nos. E14, E16, E18, E20, E22, E24, E26, E28, and E30. See table above. Made of ZENEL. Chrome-plated.

NET PRICES

In Cardboard Box\$3.65
In Leatherette Roll 3.95

No. 17 SET

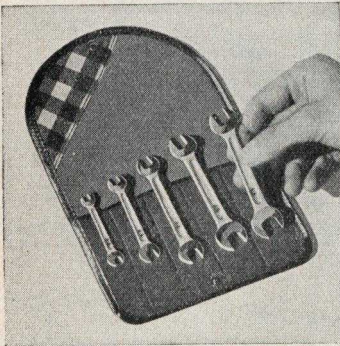


In addition to the nine ZENEL Electrical Wrenches listed above the No. 17 Set contains a No. 001 Pocket Size Screw Driver and a 2572 Ignition Plier. Used on distributors, magnetos, coils and all ignition systems, also radios and electrical appliances.

NET PRICES

In Cardboard Box \$4.80
In Leatherette Roll 5.10

No. 20 SET ZENEL MINIATURE WRENCHES



Delicate jobs on magnetos, generators, radios, timers, oil cleaners, carburetors, electrical parts and similar jobs are quickly done with Bonney Miniature Wrenches. The No. 20 Set contains one each of Nos. H10, H12, H14, H16 and H18 listed below. They are made of ZENEL, have pan-elled handles and are Chrome-plated.

NET PRICES

In Cardboard Box\$1.65
In Leatherette Roll 1.90

Wrench No.	Openings Milled	Length	Thickness Heads	Net Price
H-10	3/16 & 7/32	2 1/2	5/32	\$0.30
H-12	1/4 & 9/32	3	5/32	.30
H-14	5/16 & 11/32	3 3/4	3/16	.35
H-15	9/32 & 3/8	3 3/4	3/16	.35
H-16	3/8 & 7/16	4 1/8	7/32	.35
H-18	15/32 & 15/16	4 1/8	7/32	.35

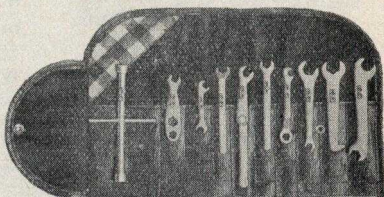
Electrical and Ignition Wrenches and Sets

INDIVIDUAL IGNITION WRENCHES

Wr'ch No.	Description	Net Price	Wr'ch No.	Description	Net Price
E2	Northeast, Splitdorf, Bosch.....	\$0.30	E7	Bosch Du 4 & Du 6, Autolite.....	\$0.40
E3	Eisemann.....	.30	E8	Delco Remy.....	.40
E4	Remy, Wagner.....	.30	E9	Remy Cam.....	.40
E5	Remy, Wagner.....	.30	E10	Autolite Generator...	.40
E6	Ford, Third Brush....	.50	E11	Bosch.....	.65

No. 18 IGNITION WRENCH SET

A very handy Ignition Set! Used on all popular ignition systems such as Autolite, Bosch, Delco, Eisemann, Northeast, Remy, Splitdorf, Westinghouse etc. Contains the ten Wrenches listed in table above.



NET PRICES

In Cardboard Box.....	\$3.60
In Leatherette Roll.....	4.00

EXTRA-SMALL BOX WRENCHES

No.	Openings	Length	Net Price
E40	$\frac{3}{16}$ & $\frac{13}{64}$ Hexagon	2 $\frac{7}{8}$	\$0.40
E42	$\frac{1}{8}$ & $\frac{15}{64}$ Hexagon	3 $\frac{1}{8}$	.40
E44	$\frac{1}{4}$ & $\frac{9}{32}$ Double Hexagon	3 $\frac{3}{8}$	.40
E46	$\frac{5}{16}$ & $\frac{11}{32}$ Double Hexagon	3 $\frac{3}{4}$	.40

No. 21 EXTRA-SMALL BOX WRENCH SET

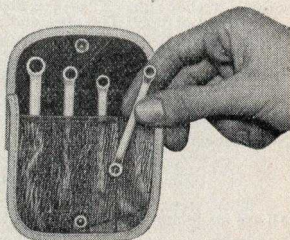
Ideal for work on ignition systems, generators, starters, heaters, etc. Contains one each wrenches Nos. E40, E42, E44 and E46.

Net Prices

In Cardboard Box.....	\$1.70
In Leatherette Roll.....	1.85



E-12 Delco-Remy Ignition Wrench



Specifically designed for Electrolock Cable Nuts on Delco-Remy systems (Chevrolet).

Net Price.....	\$0.35
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No. 2572 IGNITION PLIER

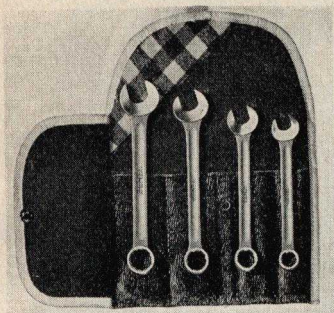
A dandy little plier for electrical work. Has a three-notch slip joint.

Net Price.....	\$1.00
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ZENEL TuType Wrenches

No. 19 SET



The No. 19 Set is widely used wherever a great many rush jobs are handled. The TuType Wrenches are convenient on such work because they provide the mechanic with both an open end and box wrench in the same tool. Both openings are the same size. The four Wrenches, Nos. 3114, 3116, 3118 and 3120 are listed below. They are made of ZENEL and are Chrome-plated.

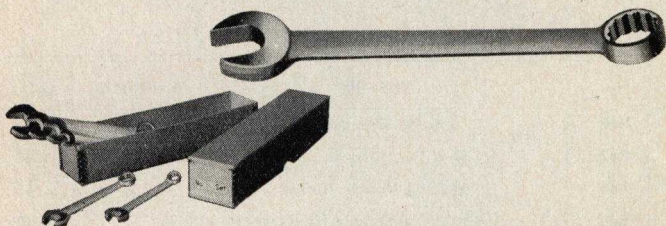
NET PRICES

In Cardboard Box.....\$2.85
In Leatherette Roll..... 3.15

ZENEL TuType WRENCHES

Wrench No.	Opening	U. S. S. Bolt Size	Hex. Hd. Cap Screw	S. A. E. Screw & Nut	Length	Net Price
3114	7/16	.....	1/4	1/4	5	\$0.65
3116	1/2	1/4	5/16	5/16	5 3/8	.75
3118	9/16	.....	3/8	3/8	5 7/8	.85
3120	5/8	.....	7/16	7/16	6 1/4	.95

TuHex TuType WRENCHES



TuHex TuType Wrenches are practical and inexpensive. On general purpose work where speed is often necessary, they are very convenient. The two types of openings—the same size in both ends—allow the one to be applied which is best suited for that job. They are made of *Chrome-Vanadium* Steel, correctly heat-treated and plated. The open end is at the standard angle of 15° and the box end is offset at 15° to allow for proper clearance.

No. 168 SET

The No. 168 TuHex TuType Set contains one each Wrenches Nos. 161, 162, 163 and 164 packed in a strong, cardboard box.

Net Price.....\$1.90

No. 169 SET

This set contains one each Wrenches Nos. 161, 162, 163, 164, 165 and 166. All are made of *Chrome-Vanadium* Steel and plated.

Net Price.....\$3.20

TuHex TuType WRENCHES

No.	Openings	Length	Net Price
161	7/16"	5 3/8"	\$0.40
162	1/2"	6"	.45
163	9/16"	6 3/4"	.50
164	5/8"	7 3/4"	.55
165	11/16"	8 5/8"	.60
166	3/4"	9 1/2"	.70

ZENEL Engineers' Wrenches



Bonney ZENEL Engineers' Wrenches are the strongest wrenches on the market. ZENEL is a steel developed and used only by Bonney. It is the hardest tough steel used in wrenches, and has great wear-resisting properties. Wrenches made of ZENEL actually outlast two or three wrenches made with ordinary steels.

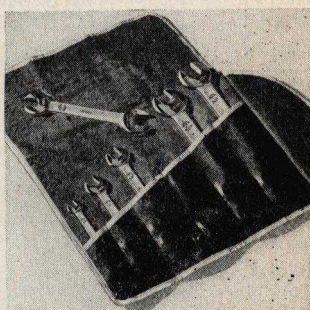
ZENEL Engineers' Wrenches have panelled handles so that a strong, comfortable grip can be taken. Their heads are narrow and the Wrenches light in weight. They are Chrome-plated and rigidly inspected.

Number, Sizes and Prices ZENEL ENGINEERS' WRENCHES

Wrench No.	U.S.S. Bolt Size	Hex. Hd. Cap Screw	S.A.E. Std. Screw and Nut	Openings Milled	Extreme Length	Thick-ness of Head	Net Price
3721	$\frac{1}{8}$ & $\frac{3}{16}$	$\frac{1}{8}$ & $\frac{3}{16}$	.....	$\frac{5}{16}$ & $\frac{3}{8}$	$4\frac{1}{4}$	$\frac{3}{16}$ }	\$0.45
3021	$\frac{1}{8}$ & $\frac{3}{16}$	$\frac{1}{8}$ & $\frac{3}{16}$	.....	$\frac{5}{16}$ & $1\frac{1}{2}$	$4\frac{1}{4}$	$\frac{3}{16}$ }	
3723	.....	$\frac{3}{16}$ & $\frac{1}{4}$	& $\frac{1}{4}$	$\frac{3}{8}$ & $\frac{7}{16}$	$4\frac{3}{4}$	$\frac{7}{32}$ }	.50
3723A	$\frac{3}{16}$ & $\frac{1}{4}$	$\frac{3}{16}$ & $\frac{5}{16}$	& $\frac{5}{16}$	$\frac{3}{8}$ & $\frac{1}{2}$	$4\frac{3}{4}$	$\frac{7}{32}$ }	
3023	$\frac{3}{16}$ & $\frac{1}{4}$	$\frac{3}{16}$ & $\frac{5}{16}$	& $\frac{5}{16}$	$1\frac{1}{2}$ & $\frac{1}{2}$	$4\frac{3}{4}$	$\frac{7}{32}$ }	.60
3725	& $\frac{1}{4}$	$\frac{1}{4}$ & $\frac{5}{16}$	$\frac{1}{4}$ & $\frac{5}{16}$	$\frac{7}{16}$ & $\frac{1}{2}$	$5\frac{3}{4}$	$\frac{1}{4}$ }	
3725B	$\frac{1}{4}$ & $\frac{5}{16}$	$\frac{5}{16}$ & $\frac{3}{8}$	$\frac{5}{16}$ & $\frac{3}{8}$	$\frac{1}{2}$ & $\frac{9}{16}$	$5\frac{3}{4}$	$\frac{1}{4}$ }	.70
3025	$\frac{1}{4}$ & $\frac{5}{16}$	$\frac{5}{16}$ & $\frac{3}{8}$	$\frac{5}{16}$ & $\frac{3}{8}$	$\frac{1}{2}$ & $1\frac{1}{2}$	$5\frac{3}{4}$	$\frac{1}{4}$ }	
3727	.....	$\frac{3}{8}$ & $\frac{7}{16}$	$\frac{3}{8}$ & $\frac{7}{16}$	$\frac{9}{16}$ & $\frac{5}{8}$	7	$\frac{9}{32}$ }	.90
3027	$\frac{5}{16}$ & $\frac{3}{8}$	.....	.....	$1\frac{1}{2}$ & $1\frac{1}{16}$	7	$\frac{9}{32}$ }	
3027C	$\frac{5}{16}$ & $\frac{3}{8}$	$\frac{3}{8}$ & $\frac{7}{16}$	$\frac{3}{8}$ & $\frac{7}{16}$	$\frac{9}{16}$ & $1\frac{1}{16}$	7	$\frac{9}{32}$ }	1.20
3028S	& $\frac{7}{16}$	$\frac{7}{16}$ & $\frac{1}{2}$	$\frac{7}{16}$ & $\frac{1}{2}$	$\frac{5}{8}$ & $2\frac{5}{32}$	8	$\frac{5}{16}$ }	
3729	.....	$\frac{7}{16}$ & $\frac{1}{2}$	$\frac{7}{16}$ & $\frac{1}{2}$	$\frac{5}{8}$ & $\frac{3}{4}$	8	$\frac{5}{16}$ }	1.50
3029	$\frac{3}{8}$ & $\frac{7}{16}$	.....	.....	$1\frac{1}{16}$ & $2\frac{5}{32}$	8	$\frac{5}{16}$ }	
3731	.....	$\frac{1}{2}$ & $\frac{9}{16}$	$\frac{1}{2}$ & $\frac{9}{16}$	$\frac{3}{4}$ & $1\frac{1}{16}$	$9\frac{1}{2}$	$\frac{3}{8}$ }	2.10
3731A	& $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{5}{8}$	$\frac{1}{2}$ & $\frac{5}{8}$	$\frac{3}{4}$ & $\frac{7}{8}$	$9\frac{1}{2}$	$\frac{3}{8}$ }	
3031	$\frac{7}{16}$ & $\frac{1}{2}$	$\frac{5}{8}$ & $\frac{5}{8}$	$\frac{9}{16}$ & $\frac{5}{8}$	$\frac{7}{8}$ & $\frac{15}{16}$	$9\frac{1}{2}$	$\frac{3}{8}$ }	1.50
3033A	$\frac{1}{2}$ & $\frac{9}{16}$	$\frac{5}{8}$ & $\frac{3}{4}$	$\frac{9}{16}$ & $\frac{3}{4}$	$\frac{7}{8}$ & $1\frac{1}{16}$	$9\frac{1}{2}$	$\frac{3}{8}$ }	
3033	$\frac{1}{2}$ & $\frac{9}{16}$	$\frac{5}{8}$ & $\frac{3}{4}$	$\frac{9}{16}$ & $\frac{3}{4}$	$\frac{7}{8}$ & $1\frac{1}{16}$	$9\frac{1}{2}$	$\frac{3}{8}$ }	1.50
3733	$\frac{1}{2}$ & $\frac{9}{16}$	$\frac{5}{8}$ & $\frac{3}{4}$	$\frac{9}{16}$ & $\frac{3}{4}$	$\frac{7}{8}$ & $1\frac{1}{16}$	11	$\frac{15}{32}$ }	
3033C	.....	$\frac{5}{8}$ & $\frac{3}{4}$	$\frac{9}{16}$ & $\frac{3}{4}$	$\frac{7}{8}$ & $1\frac{1}{16}$	11	$\frac{15}{32}$ }	2.10
3034	$\frac{1}{2}$ & $\frac{5}{8}$	$\frac{5}{8}$ & $\frac{3}{4}$	$\frac{9}{16}$ & $\frac{3}{4}$	$\frac{7}{8}$ & $1\frac{1}{16}$	11	$\frac{15}{32}$ }	
3034A	$\frac{1}{2}$ & $\frac{5}{8}$	$\frac{5}{8}$ & $\frac{3}{4}$	$\frac{9}{16}$ & $\frac{3}{4}$	$\frac{7}{8}$ & $1\frac{1}{16}$	11	$\frac{15}{32}$ }	2.10
3035	$\frac{9}{16}$ & $\frac{5}{8}$	.....	.....	$\frac{31}{32}$ & $1\frac{1}{16}$	11	$\frac{15}{32}$ }	
3735	.....	$\frac{3}{4}$ & $\frac{7}{8}$	$\frac{11}{16}$ & $\frac{7}{8}$	1 & $1\frac{1}{8}$	$12\frac{1}{2}$	$\frac{17}{32}$ }	2.10
3037	$\frac{5}{8}$ & $\frac{3}{4}$	$\frac{7}{8}$ & 1	$\frac{3}{4}$ & $\frac{7}{8}$	$1\frac{1}{16}$ & $1\frac{1}{4}$	$12\frac{1}{2}$	$\frac{17}{32}$ }	
3737	& $\frac{3}{4}$	$\frac{7}{8}$ & 1	$\frac{7}{8}$ & 1	$1\frac{1}{8}$ & $1\frac{1}{4}$	$12\frac{1}{2}$	$\frac{17}{32}$ }	

ZENEL ENGINEERS' WRENCH SETS Nos. Z25 and Z26

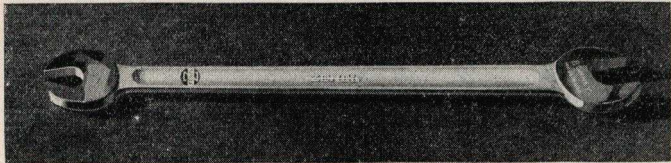
Mechanics who demand the best from their tools should by all means have a No. Z25 or Z26 ZENEL Engineers' Wrench Set. These super-fine sets contain only the most popular numbers. The Z25 consists of six wrenches, Nos. 3723, 3025, 3027C, 3028S, 3731A, 3033C having openings of $\frac{3}{8}$ " and $\frac{1}{16}$ ", $\frac{1}{2}$ " and $1\frac{1}{32}$ ", $\frac{9}{16}$ " and $1\frac{1}{16}$ ", $\frac{5}{8}$ " and $2\frac{5}{32}$ ", $\frac{3}{4}$ " and $\frac{7}{8}$ " and $1\frac{5}{16}$ " and 1" respectively. The No. Z26 Set is more complete. It contains eight Wrenches Nos. 3723, 3725, 3725B, 3025, 3727, 3729, 3029 and 3731A with openings of $\frac{3}{8}$ " and $\frac{1}{16}$ ", $\frac{1}{16}$ " and $\frac{1}{2}$ ", $\frac{1}{2}$ " and $\frac{5}{16}$ ", $\frac{1}{2}$ " and $1\frac{1}{32}$ ", $\frac{9}{16}$ " and $\frac{5}{8}$ ", $\frac{5}{8}$ " and $\frac{3}{4}$ " $1\frac{1}{16}$ " and $2\frac{5}{32}$ ". $\frac{3}{4}$ " and $\frac{7}{8}$ " respectively.



NET PRICES

Z25 in Cardboard Box	\$4.85
Z25 in Leatherette Roll	5.40
Z26 in Leatherette Roll	5.95

No. 3420 Series ZENEL Tappet Wrenches



Bonney 3420 Series Tappet Wrenches are made of ZENEL. Through the use of ZENEL it has been possible to further refine the design of Bonney Tappet Wrenches. They are exceptionally strong and wear resisting...are lighter, and have thinner narrower heads. Panelled handles allow the mechanic to take a firm, steady grip when making close adjustments.

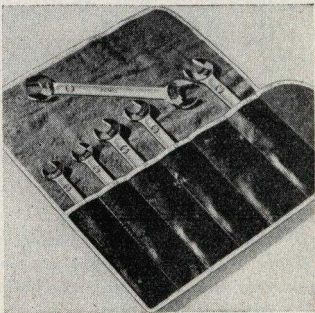
Their length ranging from eight inches to 9 1/2 inches allows the mechanic to work clear of the hot motor. The openings are at an angle of 15° and they have different size openings in each end. They are Chrome-plated.

Numbers, Sizes and Prices ZENEL TAPPET WRENCHES

Wrench No.	Openings Milled	S.A.E. Standard Screw and Nut	U.S.S. Bolt Size	Extreme Length	Thickness of Head	Net Price
3420A 3420 3422	7/16 & 1/2 7/16 & 17/32 1/2 & 9/16	1/4 & 5/16 1/4 & 5/8 5/16 & 3/8	& 1/4 1/4 &	8 8 8	5/32 } 5/32 } 5/32 }	\$0.75
3424B 3424 3424A	9/16 & 5/8 5/8 & 11/16 5/8 & 3/4	3/8 & 7/16 7/16 & 1/2 7/16 & 1/2	 & 3/8	8 1/2 8 1/2 8 1/2	3/16 } 3/16 } 3/16 }	.85
3425 3426	3/4 & 13/16 3/4 & 7/8	1/2 & 9/16 1/2 & 9/16	 & 1/2	9 9	7/32 } 7/32 }	.95
3428	15/16 & 1	5/8 & 11/16	.....	9 1/2	7/32	1.05

ZENEL TAPPET WRENCH SETS Nos. Z22 and Z23

That mechanics have approved these fine ZENEL Tappet Sets is evident from their constantly increasing sale. They handle tappet adjustments on almost every make of car, and because they are made of ZENEL will outlast two or three sets of ordinary steel tappet wrenches.



No. Z22 consists of two each of numbers 3422, 3424 and 3426, having openings of 1/2" and 9/16", 5/8" and 11/16", 3/4" and 7/8" respectively. The No. Z23 Set is more complete. It contains eight Wrenches, two each of Nos. 3420, 3422, 3424 and 3426. They have openings of 1/16" and 17/32", 1/2" and 9/16", 5/8" and 11/16", 3/4" and 7/8".

NET PRICES

- Z22 In Cardboard Box.....\$4.50
- Z22 In Leatherette Roll 5.00
- Z23 In Leatherette Roll 6.30

ZENEL—What it is.

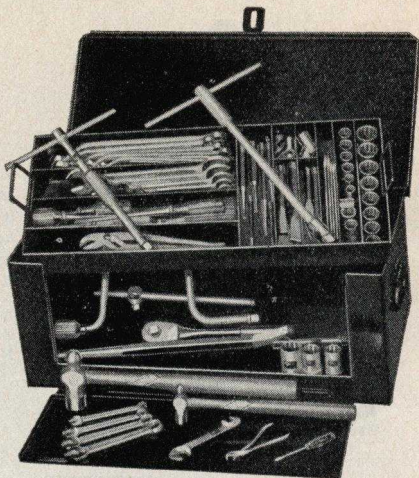
ZENEL is a wrench steel developed by Bonney Engineers and Metallurgists. It is the result of years of research and experimentation and is the toughest, most wear-resisting steel used in wrenches. ZENEL Wrenches are practically unbreakable and even under exceptionally severe use, outlast two or three ordinary wrenches.

BONNEY No. BB (Double B) Set

72 Pieces

You'll like the "Double B" Set...real value has been put into it by the selection of its contents...the sockets and attachments...the Open-end and Box Wrenches...the Chisels, Punches, Screw Drivers, Pliers, Hammers and other Tools...72 pieces in all.

It is packed in a big, strong, roomy metal chest... large enough to serve as a box for your main tool kit. Set weighs complete, 56 lbs.



CONTENTS

Wr'ch No.	Description	Wr'ch No.	Description
SOCKETS & ATTACH.		CHISELS & PUNCHES	
D14	7/16" Double-Hexagon.....	C2	Flat Chisel.....
D16	1/2" " ".....	C4	Flat Chisel.....
D18	9/16" " ".....	C6	Flat Chisel.....
D19	19/32" " ".....	C12	Cape Chisel.....
D20	5/8" " ".....	C15	Diamond Point Chisel.....
D21	21/32" " ".....	C21	Solid Punch.....
D22	11/16" " ".....	C23	Solid Punch.....
D24	3/4" " ".....	C25	Long Taper Punch.....
D25	25/32" " ".....	C28	Pin Punch.....
D26	13/16" " ".....	C30	Pin Punch.....
D28	7/8" " ".....	C34	Center Punch.....
D30	15/16" " ".....	C38	Pry or Pinch Bar.....
D31	31/32" " ".....		
D32	1" " ".....		
LD26T	13/16" Extra Deep.....		
LD28T	7/8" " ".....		
LD32	1" " ".....		
4116	1/2" Square.....	001	Pocket Size Screw Driver.....
4118	9/16" " ".....	E03	Electricians' (Neon Tube)
2591	1/4" to 3/4" Stud Wrench.....	S01	Adjusting.....
4001	15/16" Drag Link.....	S04	Square Shank.....
4084	Brace, 13" long.....	06	Round Shank.....
4087	Sliding T Handle, 11" long.....	08	Round Shank.....
4090	Extension, 5" long.....	006	Electricians'.....
4091	Extension, 10" long.....		
4092	Cross Handle for 10" Ex.....		
4095	Universal Joint.....		
4096	Hinge Handle, 15" long.....	PH2	Ball Pein (Gasket) Hammer.....
4097	Rever. Ratchet with lug.....	PH7	Ball Pein Hammer (1 lb.).....
		2570	Adjust. Plier, 0" to 2".....
		2572	Ignition Plier.....
WRENCHES		MISCELLANEOUS	
3114	7/16" ZENEL TuType.....		
3116	1/2" ZENEL TuType.....		
3118	9/16" ZENEL TuType.....		
3120	5/8" ZENEL TuType.....		
3723	3/8" & 7/16" ZENEL Engineers'.....		
3025	1/2" & 19/32" " ".....		
3027C	9/16" & 11/16" " ".....		
3028S	5/8" & 25/32" " ".....		
3731A	3/4" & 7/8" " ".....		
3033C	15/16" & 1" " ".....		
3422	1/2" & 9/16" Tappet (2 Wrchs.).....		
3424	5/8" & 11/16" Tappet (2 Wrchs.).....		
Z2816	1/2" Double-Hexagon Box.....		
Z2818	9/16" " ".....		
Z2820	5/8" " ".....		
Z2822	11/16" " ".....		
Z2824	3/4" " ".....		
2725B	Right Angle, 1/2" x 9/16".....		

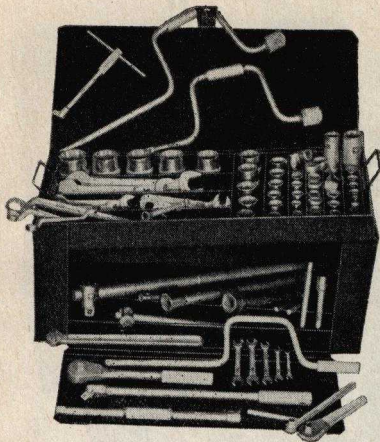
Set No. BB

Net Delivered

Price \$56.00

Set No. **BB**
Net Delivered
Price **\$56.00**

Bonney No. MC Bench Set



73 Pieces

The "MC" Set is for all around work in the garage. Mechanics everywhere consider it an all-purpose set that is hard to beat. Every piece is light in weight, strong and sturdy and—fully guaranteed.

The chest in which this set is packed is 23½" x 12" x 9". Net weight complete, 62 lbs.

CONTENTS

No.	Description
4081	Offset.....
4084	Brace 13".....
4085	Speeder 20".....
4087	Sliding "T".....
4090	Extension 5".....
4091	Extension 10".....
4092	Cross Handle.....
4095	Universal Joint.....
4096	Hinge Handle.....
4097	Reversible Ratchet.....
T2	Offset.....
T3	Universal Joint.....
T4	Extension 6".....
T5	"T" Handle 12".....
T9	Speeder.....
T30	Hinge Handle.....
T28	Ratchet.....
4287	Sliding "T".....
4290	Extension 8½".....
4291	Extension 17".....

SOCKETS

T12	¾" Double Hex.....
T14	⅞" Double Hex.....
T16	1" Double Hex.....
T18	⅞" Double Hex.....
T20	⅞" Double Hex.....
4114	1" Square.....
4116	1½" Square.....
4118	1½" Square.....

No.	Description
SOCKETS (continued)	
D14	⅞" Double Hex.....
D16	1" Double Hex.....
D18	⅞" Double Hex.....
D19	1½" Double Hex.....
D20	⅞" Double Hex.....
D21	1½" Double Hex.....
D22	1½" Double Hex.....
D24	¾" Double Hex.....
D25	2½" Double Hex.....
D26	1½" Double Hex.....
D28	⅞" Double Hex.....
D30	1½" Double Hex.....
D31	1½" Double Hex.....
D32	1" Double Hex.....
4001	Drag Link 1½".....
4002	Drag Link 1¼".....
LD26T	Extra Deep 1½".....
LD32	Extra Deep 1".....
HD34	Heavy Duty 1½".....
HD36	Heavy Duty 1½".....
HD40	Heavy Duty 1¼".....
HD44	Heavy Duty 1½".....
HD46	Heavy Duty 1½".....
HD48	Heavy Duty 1½".....
HD52	Heavy Duty 1½".....
2866	1½" Crowfoot Box.....
2868	¾" Crowfoot Box.....
2870	¾" Crowfoot Box.....
2874	¾" Crowfoot Box.....

WRENCHES

H10	5/16" & 7/16" Eng.....
H12	1/4" & 9/16" Eng.....
H14	5/16" & 11/16" Eng.....
H16	3/8" & 7/8" Eng.....
H18	15/16" & 1 1/16" Eng.....
1725B	1 1/8" & 1 1/16" Eng.....
1727	9/16" & 5/8" Eng.....
1729	5/8" & 3/4" Eng.....
1731A	3/4" & 7/8" Eng.....
1033C	15/16" & 1" Eng.....
2725B	1 1/2" & 9/16" R. Angle.....
2727	9/16" & 5/8" R. Angle.....
2804	3/8" & 7/16" D. H. Box.....
2805	1/2" & 9/16" D. H. Box.....
2807	5/8" & 3/4" D. H. Box.....
2809	7/8" & 15/16" D. H. Box.....

Set No.

MC

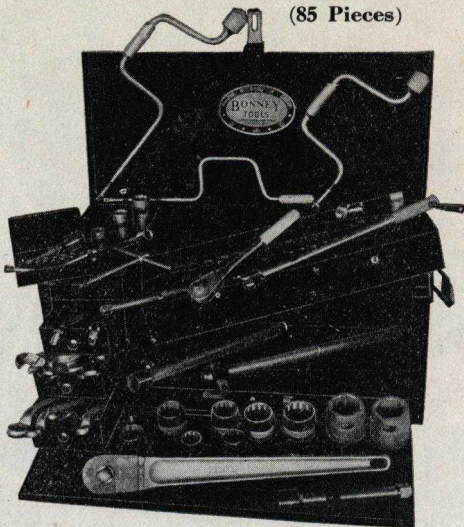
Net Delivered

Price

\$ 60.60

Bonney No. AA (Double A) Set

(85 Pieces)



The No. AA is an unusually complete set of 85 carefully selected pieces to handle almost any job encountered. Contains $\frac{3}{16}$ ", $\frac{3}{8}$ ", $\frac{1}{2}$ " and $\frac{3}{4}$ " square drive Sockets with an assortment of Handles and Attachments for each size, as well as double-hexagon Box Wrenches, Tappet Wrenches and an assortment of Engineers' Wrenches.

Packed in a strong metal chest—black enameled—measuring 27" x 12" x 13". It has a removable tray, drop front, padlock hasp and drawers. Weighs complete, 105 lbs.

CONTENTS

No.	Description	No.	Description
SOCKETS & ATTACHMENT $\frac{3}{16}$" Drive		HD36	1 $\frac{1}{4}$ " Double Hexagon Socket
M8	1 $\frac{1}{4}$ " Double Hexagon Socket	HD40	1 $\frac{1}{4}$ " Double Hexagon Socket
M9	$\frac{3}{8}$ " Double Hexagon Socket	HD44	1 $\frac{3}{8}$ " Double Hexagon Socket
M10	$\frac{1}{2}$ " Double Hexagon Socket	HD46	1 $\frac{3}{8}$ " Double Hexagon Socket
M11	$\frac{1}{2}$ " Double Hexagon Socket	HD48	1 $\frac{1}{2}$ " Double Hexagon Socket
M12	$\frac{3}{8}$ " Double Hexagon Socket	HD52	1 $\frac{3}{8}$ " Double Hexagon Socket
M14	$\frac{3}{8}$ " Double Hex. Socket	4256	1 $\frac{3}{8}$ " Hexagon Socket
M18	$\frac{1}{4}$ " Double Square Socket	4258	1 $\frac{1}{8}$ " Hexagon Socket
MS10	$\frac{1}{16}$ " Double Square Socket	4287	20" Sliding "T" Handle
M4	Extension, 4 $\frac{1}{2}$ " long	4290	Extension 8 $\frac{1}{4}$ " long
M5	Sliding "T", 4" long	4291	Extension 17" long
M20	Spinner Handle	4292	20" Reversible Ratchet
SOCKETS & ATTACHMENT $\frac{3}{8}$" Drive		BOX WRENCHES DOUBLE HEXAGON	
T12	$\frac{3}{8}$ " Double Hexagon Socket	176	$\frac{3}{8}$ " & $\frac{1}{2}$ " Short Type
T14	$\frac{1}{2}$ " Double Hexagon Socket	177	$\frac{1}{2}$ " & $\frac{3}{8}$ " Short Type
T16	$\frac{1}{2}$ " Double Hexagon Socket	178	$\frac{3}{8}$ " & $\frac{1}{2}$ " Short Type
T18	$\frac{3}{8}$ " Double Hexagon Socket	182	$\frac{3}{8}$ " & $\frac{1}{2}$ " Long Type
T20	$\frac{3}{8}$ " Double Hexagon Socket	183	$\frac{3}{8}$ " & $\frac{1}{2}$ " Long Type
T22	$\frac{1}{2}$ " Double Hexagon Socket	184	$\frac{1}{2}$ " & $\frac{3}{8}$ " Long Type
T24	$\frac{3}{4}$ " Double Hexagon Socket	TAPPET WRENCHES	
T27	Drag Link Socket	422	(Two each) $\frac{1}{2}$ " & $\frac{3}{8}$ " Openings
T3	Universal Joint	424	(Two each) $\frac{3}{8}$ " & $\frac{1}{2}$ " Openings
T4	Extension 6" long	426	(Two each) $\frac{1}{4}$ " & $\frac{3}{8}$ " Openings
T5	"T" Handle, 12" long	ENGINEERS' WRENCHES	
T9	Speeder	1723	$\frac{3}{16}$ " & $\frac{1}{8}$ " Openings
T30	Hinge Handle	1025	$\frac{1}{8}$ " & $\frac{1}{16}$ " Openings
SOCKETS & ATTACHMENT $\frac{1}{2}$" Drive		1027C	$\frac{3}{8}$ " & $\frac{1}{2}$ " Openings
A14	$\frac{1}{2}$ " Straight Wall Double Hexagon Socket	1028S	$\frac{3}{8}$ " & $\frac{1}{2}$ " Openings
A16	$\frac{3}{4}$ " Straight Wall Double Hexagon Socket	1731A	$\frac{3}{8}$ " & $\frac{1}{2}$ " Openings
A18	$\frac{1}{2}$ " Straight Wall Double Hexagon Socket	1033C	$\frac{1}{2}$ " & $\frac{1}{4}$ " Openings
A19	$\frac{1}{2}$ " Straight Wall Double Hexagon Socket	Set No. AA Net Delivered Price \$80.90	
A20	$\frac{3}{8}$ " Straight Wall Double Hexagon Socket		
D21	$\frac{1}{2}$ " Double Hexagon Socket		
A22	$\frac{1}{2}$ " Straight Wall Double Hexagon Socket		
A24	$\frac{3}{8}$ " Straight Wall Double Hexagon Socket		
A25	$\frac{1}{2}$ " Straight Wall Double Hexagon Socket		
A26	$\frac{1}{2}$ " Straight Wall Double Hexagon Socket		
A28	$\frac{1}{2}$ " Straight Wall Double Hexagon Socket		
A30	$\frac{1}{2}$ " Straight Wall Double Hexagon Socket		
A31	$\frac{1}{2}$ " Straight Wall Double Hexagon Socket		
A32	1" Straight Wall Double Hexagon Socket		
4001	Drag Link Socket, $\frac{1}{2}$ "		
D4114	$\frac{1}{2}$ " Double Square Socket		
D4116	$\frac{1}{2}$ " Double Square Socket		
D4118	$\frac{1}{2}$ " Double Square Socket		
D4120	$\frac{1}{2}$ " Double Square Socket		
D4124	$\frac{1}{2}$ " Double Square Socket		
LD26T	$\frac{1}{2}$ " Spark Plug Socket		
LD28T	$\frac{1}{2}$ " Spark Plug Socket		
LD32	1" Spark Plug Socket		
4084	Brace, 13" long		
4085	Speeder, 20" long		
4090	Extension, 5" long		
4091	Extension, 10" long		
4095	Universal Joint		
4096	Hinge, Handle, 15" long		
4097	Reversible Ratchet		
SOCKETS & ATTACHMENT $\frac{3}{4}$" Drive			
HD34	1 $\frac{1}{2}$ " Double Hexagon Socket		

A Complete BONNEY



CONT

No.	Description
1/2" DRIVE SOCKETS & ATTACHMENTS	
D14	7/16" Double-hexagon
D16	1/2" Double-hexagon
D18	9/16" Double-hexagon
D19	1 1/16" Double-hexagon
D20	5/8" Double-hexagon
D21	1 1/8" Double-hexagon
D22	1 1/16" Double-hexagon
D24	3/4" Double-hexagon
D25	25/32" Double-hexagon
D26	13/16" Double-hexagon
D28	7/8" Double-hexagon
D30	15/16" Double-hexagon
D31	1 1/16" Double-hexagon
D32	1" Double-hexagon
LD26T	1 1/16" Extra-Deep Spark Plug
LD28T	7/8" Extra-Deep Spark Plug
LD32	1" Extra-Deep Spark Plug
4001	Drag Link Socket, 1 1/16" blade
4084	Brace, 13" long
4087	Sliding "T" Handle, 11" long
4090	Extension, 5" long
4091	Extension, 10" long
4092	Cross Handle for 10" Extension
4095	Universal Joint

No.	D
4096	Hinge Handle,
4097	Reversible Ratio
WRENCH	
3723	3/8" & 7/16" ZE
3025	1/2" & 9/16" ZE
3725B	7/16" & 1/2" ZE
3027C	9/16" & 11/16" ZE
3028S	5/8" & 25/32" ZE
3731A	3/4" & 7/8" ZE
3033C	15/16" & 1" ZE
3422	1 1/2" & 9/16" ZE
3424	5/8" & 11/16" ZE
2804	3/8" & 7/16" ZE
2805	1/2" & 9/16" ZE
2807	5/8" & 3/4" ZE
2809	7/8" & 15/16" ZE
2881	9/16" & 5/8" ZE
PLIERS	
B6	6" Combination
B17	Diagonal Cutting
B20	Battery
2570	7 Notch Slip Joint
2572	3 Notch Slip Joint

Have the Right Tools

Tool Kit for \$50⁰⁰

The Veterans Bond Set No. VBS

Here's the outstanding set of tools of the year. Designed especially for the mechanic who is a World War Veteran and has been delaying the purchase of needed new tools until his Bonus Bonds have been received.

The set is complete in every way—consists of an assortment of 65 carefully selected pieces packed in a strong, roomy, metal chest with removable tray, drop-front and pad-lock hasp.

Ample space is available for additional Bonney Tools later, or for safe-keeping of those tools you now have that may be too good to discard. Chest measures 23½" x 12" x 9".

CONTENTS

Description
Tools & Attachments (Con.)
15" long
Chet
ES
NEL Engineers'
NEL Engineers'
NEL Engineers'
NEL Engineers'
NEL Engineers'
NEL Engineers'
NEL Engineers'
NEL Tappet (2 Wrenches)
NEL Tappet (2 Wrenches)
Double-hexagon Box
Double-hexagon Box
Double-hexagon Box
Double-hexagon Box
NEL Manifold and Starter
n
ng
Point Adjustable 0" to 2"
Point Ignition

No.	Description
CHISELS and PUNCHES	
C2	½" Flat
C4	⅝" Flat
C6	1" Flat
C21	⅛" Solid Punch
C23	⅛" Solid Punch
C25	⅝" Long Taper Punch
C28	⅛" Pin Punch
C30	¼" Pin Punch
C34	Center Punch
SCREW DRIVERS	
001	Pocket Size with clip
E03	With Neon Tube
S01	Adjusting, 1¾" blade
04	Round Shank, 4" blade
06	Round Shank, 6" blade
08	Round Shank, 8" blade
006	Electrician's, 6" blade
HAMMERS	
PH2	3½ oz. Ball Pein
PH7	1 Lb. Ball Pein

Tool for Every Job!

Bonney No. AA1 (Double A1) Set (138 Pieces)



The "AA1" Set is the most complete set ever assembled for mechanics' use. Containing 138 pieces, it was designed to give the mechanic all the tools necessary to do practically every job encountered on any pleasure car, bus or truck.

Packed in a lifetime, black-enameled metal chest, 27" x 12" x 13" with drop front, padlock hasp, removable tray and drawers. Weighs complete, 125 lbs.

CONTENTS

No.	Description	No.	Description	No.	Description
SOCKETS & ATTACH. 3/8" Drive		SOCKETS & ATTACH. 1/2" Drive		ZENEL ENGINEERS' WRENCHES	
M8	Double Hexagon Socket, 3/4"	D14	1 1/2" Double-Hexagon Socket	H10	3/8" & 3/4" Miniature
M9	Double Hexagon Socket, 7/8"	D16	1 3/4" Double-Hexagon Socket	H12	3/4" & 1 1/2" Miniature
M10	Double Hexagon Socket, 1 1/8"	D18	1 7/8" Double-Hexagon Socket	H14	3/8" & 1 1/4" Miniature
M11	Double Hexagon Socket, 1 1/4"	D19	2" Double-Hexagon Socket	H16	3/4" & 1 3/8" Miniature
M12	Double Hexagon Socket, 1 1/2"	D20	2 1/4" Double-Hexagon Socket	H18	1 1/2" & 1 3/4" Miniature
M14	Double Hexagon Socket, 1 3/4"	D21	2 3/4" Double-Hexagon Socket	3723A	3/8" & 1 1/2" Openings
MS8	Double Square Socket, 1 1/4"	D22	3" Double-Hexagon Socket	3025	1 1/2" & 1 3/4" Openings
MS10	Double Square Socket, 1 1/2"	D24	3 1/2" Double-Hexagon Socket	3725B	1 1/2" & 1 3/4" Openings
M4	Extension 4 1/2" long	D25	3 3/4" Double-Hexagon Socket	3027C	1 1/2" & 1 3/4" Openings
M5	Sliding T, 4" long	D26	3 7/8" Double-Hexagon Socket	3028S	3/8" & 1 1/2" Openings
M20	Spinner Handle	D28	4" Double-Hexagon Socket	3731A	3/4" & 1 1/2" Openings
SOCKETS & ATTACH. 3/8" Drive		D30	4 1/2" Double-Hexagon Socket	3033C	1 1/2" & 1" Openings
T12	3/8" Double Hexagon Socket	D31	4 3/4" Double-Hexagon Socket	ZENEL TAPPET	
T14	3/8" Double Hexagon Socket	D32	5" Double-Hexagon Socket	3422	(Two each) 1 1/2" & 3/4"
T16	3/8" Double Hexagon Socket	4001	Drag Link Socket, 1 1/2"	3424	(Two each) 5/8" & 1 1/8"
T18	3/8" Double Hexagon Socket	D4114	1 1/2" Double Square Socket	3426	(Two each) 3/4" & 7/8"
T20	3/8" Double Hexagon Socket	D4116	1 3/4" Double Square Socket	PLIERS	
T22	1 1/8" Double Hexagon Socket	D4118	1 7/8" Double Square Socket	B6	6" Combination Plier
T24	3/4" Double Hexagon Socket	D4120	2" Double Square Socket	B10	10" Combination Plier
T27	Drag Link Socket	D4124	2 1/4" Double Square Socket	B11	5" Thin Nose Com. Plier
T3	Universal Joint	LD26T	1 1/2" Spark Plug Socket	B17	Diagonal Cutting Plier
T4	Extension, 6" long	LD28T	1 3/8" Spark Plug Socket	B23	8" Lineman's Cutting Plier
T5	"T" Handle, 12" long	LD32	1 1/2" Spark Plug Socket	HAMMERS	
T9	Speeder	4084	Brace, 13" long	P112	3 1/2 oz. Ball Pein
T28	Ratchet Handle, with Lug	4085	Speeder, 20" long	P117	1 lb. Ball Pein
T30	Hinge Handle	4087	Sliding "T" Handle, 11" long	P1110	2 lb. Ball Pein
T31	Extension 3" long	4090B	Extension, 5" long	P1120	1 lb. Soft Face
TU14	1 1/4" Flexible Socket	4091	Extension, 2" long	PUNCHES & CHISELS	
TU16	1 1/2" Flexible Socket	4095	Extension, 10" long	C2	Flat Chisel
TU18	3/8" Flexible Socket	4097	Universal Joint	C4	Flat Chisel
TU20	3/8" Flexible Socket	4097	Hinge Handle 15" long	C6	Flat Chisel
SOCKETS & ATTACH. 3/8" Drive		4097	Reversible Ratchet	C21	Solid Punch
HD32	1" Double-Hexagon Socket	SOCKETS & ATTACH. 1/2" Drive		C26	Long Taper Punch
HD34	1 1/8" Double-Hexagon Socket	HD32	1" Double-Hexagon Socket	C28	Pin Punch
HD36	1 1/4" Double-Hexagon Socket	HD34	1 1/8" Double-Hexagon Socket	C29	Pin Punch
HD40	1 1/2" Double-Hexagon Socket	HD40	1 1/2" Double-Hexagon Socket	C34	Center Punch
HD44	1 3/4" Double-Hexagon Socket	HD44	1 3/4" Double-Hexagon Socket	C36	Rivet Buster
HD46	1 7/8" Double-Hexagon Socket	HD46	1 7/8" Double-Hexagon Socket	C38	Pry or Pin Bar
HD48	2" Double-Hexagon Socket	HD48	2" Double-Hexagon Socket	SCREW DRIVER	
HD52	2 1/4" Double-Hexagon Socket	HD52	2 1/4" Double-Hexagon Socket	001	Pocket Size
4258	1 1/2" Hexagon Socket	4258	2" Hexagon Socket	006	Electricians' 6"
4264	2" Hexagon Socket	4264	2" Hexagon Socket	0010	Electricians' 10"
4287	Sliding "T" Handle, 20" long	4287	Sliding "T" Handle, 20" long	E03	Electricians' (Neon Tube)
4290	Extension 8 1/2" long	4290	Extension 8 1/2" long	S01	Adjusting
4291	Extension 17" long	4291	Extension 17" long	S04	Square Shank 4"
4292	20" Reversible Ratchet	4292	20" Reversible Ratchet	06	Round Shank 6"
BOX WRENCHES		BOX WRENCHES		08	Round Shank 8"
E40	3/8" & 1 1/8" Extra-Small	E40	3/8" & 1 1/8" Extra-Small	S012	Square Shank 12"
E42	3/8" & 1 1/4" Extra-Small	E42	3/8" & 1 1/4" Extra-Small	MISCELLANEOUS	
E44	3/8" & 1 1/2" Extra-Small	E44	3/8" & 1 1/2" Extra-Small	2570	Adjustable Plier
E46	3/8" & 1 3/4" Extra-Small	E46	3/8" & 1 3/4" Extra-Small	2572	Ignition Plier
Z2804	3/8" & 1 1/8" ZENEL	Z2804	3/8" & 1 1/8" ZENEL	2591	Stud Wrench, 1/4" to 3/4"
Z2805	3/8" & 1 1/4" ZENEL	Z2805	3/8" & 1 1/4" ZENEL	2881	Starter & Manifold Wr.
Z2805L	3/8" & 1 1/2" ZENEL	Z2805L	3/8" & 1 1/2" ZENEL	K8	8" Handy Holding Tool
Z2806	3/8" & 1 3/4" ZENEL	Z2806	3/8" & 1 3/4" ZENEL		
Z2807	3/8" & 2" ZENEL	Z2807	3/8" & 2" ZENEL		
2809	3/8" & 1 1/2" ZENEL	2809	3/8" & 1 1/2" ZENEL		

Set No. **AA1**

Net Delivered

Price \$**122.40**

'CV' Chrome-Vanadium Enginneers' Wrenches



Bonney 'CV' Chrome-Vanadium Engineers' Wrenches are the original alloy steel wrenches. 'CV' Chrome-Vanadium Wrenches are thinner, longer and much stronger than carbon steel wrenches. They are perfectly balanced and their heads are thin and pear-shaped. All are Chrome-plated and have buffed heads at a 15° angle.

Numbers, Sizes and Prices 'CV' ENGINEERS' WRENCHES

Wrench No.	U.S.S. Bolt Size	Hex. Hd. Cap Screw	S.A.E. Std. Screw and Nut	Openings Milled	Extreme Length	Thick-ness of Head	Net Price
1020	& 1/8	& 1/8		1/4 & 5/16	3	5/32	\$0.30
1721	1/8 &	1/8 & 3/16		5/16 & 3/8	3 7/8	5/16	.35
1021	1/8 & 3/16	1/8 &	.....	5/16 & 13/32	3 7/8	5/16	
1722	1/8 &	1/8 & 1/4	& 1/4	5/16 & 7/16	4 1/8	5/16	
1723	.....	5/16 & 1/4	& 1/4	3/8 & 7/16	4 1/8	7/32	
1022	1/8 & 1/4	1/8 & 5/16	& 5/16	5/16 & 1/2	4 1/2	7/32	.40
1023	5/16 & 1/4	5/16 & 5/16	& 5/16	13/32 & 1/2	4 1/2	7/32	
1723A	& 1/4	5/16 & 5/16	& 5/16	5/16 & 1/2	4 1/2	7/32	
1724		5/16 & 3/8	& 3/8	3/8 & 9/16	5 1/2	15/64	.45
1024	5/16 & 5/16	.....	.....	15/32 & 19/32	5 1/2	15/64	
1725	& 1/4	1/4 & 5/16	1/4 & 5/16	7/16 & 1/2	5 1/2	15/64	
1725A	.....	1/4 & 3/8	5/16 & 3/8	7/16 & 9/16	5 1/2	15/64	
1725B	1/4 &	5/16 &	5/16 &	1/2 & 9/16	5 1/2	15/64	
1025	1/4 & 5/16	5/16 &	5/16 &	1/2 & 19/32	5 1/2	15/64	
1726	1/4 &	5/16 & 7/16	5/16 & 7/16	1/2 & 5/8	6 1/2	9/32	.55
1026	1/4 & 3/8	5/16 &	5/16 &	1/2 & 11/16	6 1/2	9/32	
1727	.....	3/8 & 7/16	3/8 & 7/16	9/16 & 5/8	6 1/2	9/32	
1027	5/16 & 3/8	.....	.....	19/32 & 11/16	6 1/2	9/32	
1027C	& 3/8	3/8 &	3/8 &	9/16 & 11/16	6 1/2	9/32	
1028	5/16 & 7/16			19/32 & 25/32	7 1/2	5/16	.70
1728	.....	3/8 & 1/2	3/8 & 1/2	9/16 & 5/4	7 1/2	5/16	
1028S	& 7/16	7/16 &	7/16 &	5/8 & 25/32	7 1/2	5/16	
1729	.....	7/16 & 1/2	7/16 & 1/2	5/8 & 3/4	7 1/2	5/16	
1029	3/8 & 7/16	.....	.....	11/16 & 25/32	7 1/2	5/16	
1730	.....	7/16 & 9/16	7/16 & 9/16	5/8 & 13/16	7 1/2	5/16	
1030	3/8 & 1/2	& 9/8	& 9/8	11/16 & 7/8	7 1/2	5/16	
1731		1/2 & 9/16	1/2 &	3/4 & 13/16	9	3/8	.95
1731A	& 1/2	1/2 & 5/8	1/2 & 9/16	3/4 & 7/8	9	3/8	
1031	7/16 & 1/2	.....	.....	25/32 & 7/8	9	3/8	
1731B	& 1/2	9/16 & 5/8	& 9/16	13/16 & 7/8	9	3/8	
1732A	.....	1/2 & 3/4	1/2 & 11/16	3/4 & 1	9	3/8	
1032	7/16 & 9/16	.....	.....	25/32 & 1 1/32	9	3/8	
1732	.....	9/16 & 3/4	.....	15/16 & 1	9	3/8	
1033A	1/2 &	5/8 &	9/16 & 5/8	7/8 & 15/16	9	3/8	
1033	1/2 & 9/16	5/8 &	9/16 &	7/8 & 31/32	9	3/8	
1733	1/2 &	5/8 & 3/4	9/16 & 11/16	7/8 & 1	10 1/2	15/32	1.30
1033C	.....	5/8 & 3/4	5/8 & 11/16	15/16 & 1	10 1/2	15/32	
1034	1/2 & 5/8	5/8 &	9/16 & 3/4	7/8 & 1 1/16	10 1/2	15/32	
1734	1/2 &	5/8 & 7/8	9/16 & 7/8	7/8 & 1 1/8	10 1/2	15/32	
1034A	& 5/8	.....	5/8 & 3/4	15/16 & 1 1/16	10 1/2	15/32	
1035	9/16 & 5/8	.....	& 3/4	31/32 & 1 1/16	10 1/2	15/32	
1735		3/4 & 7/8	11/16 &	1 & 1 1/8	12	17/32	1.75
1036	9/16 & 3/4	& 1	& 7/8	31/32 & 1 1/4	12	17/32	
1736	& 3/4	3/4 & 1	11/16 & 7/8	1 & 1 1/4	12	17/32	
1037	5/8 & 3/4	& 1	3/4 & 7/8	1 1/16 & 1 1/4	12	17/32	
1737	& 3/4	7/8 & 1	& 7/8	1 1/8 & 1 1/4	12	17/32	
1038	5/8 & 7/8		3/4 & 1	1 1/16 & 1 7/16	14	9/16	2.75
1738	.....	7/8 & 1 1/8	.....	1 1/8 & 1 3/8	14	9/16	
1739	3/4 &	1 & 1 1/8	7/8 &	1 1/4 & 1 3/8	14	9/16	
1039	3/4 & 7/8	1 &	7/8 & 1	1 1/4 & 1 7/16	14	9/16	
1739A	3/4 &	1 & 1 1/4	7/8 &	1 1/4 & 1 1/2	14	9/16	
1739B	.....	1 1/8 & 1 1/4	.....	1 1/8 & 1 1/2	14	9/16	
1040	3/4 & 1	1 & 1 3/8	7/8 & 1 1/8	1 1/4 & 1 5/8	14	9/16	
1041	7/8 & 1	& 1 3/8	1 & 1 1/8	1 7/16 & 1 5/8	15 1/2	13/16	5.00

Engineers' Wrench Set No. 25



The No. 25 Engineers' Wrench Set was assembled to offer the mechanic and general user a wrench set to cover all the most popular sizes of nuts and bolts. The Wrenches in the No. 25 Set are made of *Chrome-Vanadium* Steel and are Chrome-plated. They have different openings in each end. Their thin, pear shaped heads allow them to be used in hard-to-get-at places.

No. 25 Set contains one each of Nos. 1723, 1025, 1027C, 1028S, 1731A and 1033C, having openings of $\frac{3}{8}$ " and $\frac{1}{16}$ ", $\frac{1}{2}$ " and $1\frac{1}{2}$ ", $\frac{9}{16}$ " and $1\frac{1}{4}$ ", $\frac{5}{8}$ " and $1\frac{5}{8}$ ", $\frac{3}{4}$ " and $\frac{1}{8}$ ", $1\frac{3}{8}$ " and 1" respectively.

NET PRICES

In Cardboard Box.....	\$3.85
In Leatherette Roll.....	4.35

‘CV’ *Chrome-Vanadium* Short “S” Wrenches



Bonney Short “S” Wrenches find many useful applications in automotive work. Through the use of *Chrome-Vanadium* Steel they have been made strong and light in weight. Heads are at an angle of 20° and are buffed.

NUMBERS, SIZES and PRICES SHORT “S” WRENCHES

Wrench No.	U.S.S. Bolt Size	Hex. Head Cap Screw	S.A.E. Standard Screw and Nut	Openings Milled	Extreme Length	Thick-ness Head	Net Price
1070	.....	$\frac{3}{16}$ & $\frac{1}{4}$	& $\frac{1}{4}$	$\frac{3}{8}$ & $\frac{7}{16}$	4	$\frac{1}{4}$	\$0.40
1071	$\frac{1}{4}$ &	$\frac{5}{16}$ & $\frac{3}{8}$	$\frac{5}{16}$ & $\frac{3}{8}$	$\frac{1}{2}$ & $\frac{9}{16}$	5	$\frac{5}{16}$	.55
1072	.....	$\frac{1}{2}$ & $\frac{9}{16}$	$\frac{1}{2}$ &	$\frac{3}{4}$ & $1\frac{1}{16}$	6	$\frac{3}{8}$	.75
1073	$\frac{1}{2}$ &	$\frac{5}{8}$ & $\frac{3}{4}$	$\frac{3}{4}$ & $1\frac{1}{16}$	$\frac{7}{8}$ & 1	7	$\frac{7}{16}$	.95

No. 401 'CV' *Chrome-Vanadium* Tappet Wrenches

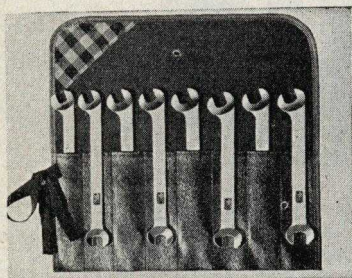


The thinness and length of the 401 series Tappet Wrenches makes them extremely useful for tappet adjusting. The mechanic works clear of the hot motor and the thin wrenches required may be readily worked with both hands. The angle of one head is at 22 1/2°, the other straight, while the openings are the same in both ends. Made of *Chrome-Vanadium* Steel and Chrome-plated.

Numbers, Sizes, Prices No. 401 SERIES TAPPET WRENCHES

Wrench No.	Openings Milled	S.A.E. Standard Screw and Nut	U.S.S. Bolt Size	Extreme Length	Thickness of Head	Net Price
401	3/8			8	5/32	\$0.40
401A	7/16	1/4		8	5/32	
402	1/2	5/16	1/4	8	5/32	
402A	17/32			8	5/32	
403	9/16	3/8		8	5/32	
403A	19/32		5/16	8	5/32	
404	5/8	7/16		8	3/16	.45
404A	21/32			8	3/16	
405	11/16		3/8	8	3/16	
406	3/4	1/2		8	7/32	.50
406A	25/32		7/16	8	7/32	
407	13/16		1/2	8	7/32	
407A	7/8	9/16		8	7/32	
408	15/16	5/8		8	7/32	.60
408A	31/32		9/16	8	7/32	
409	1	11/16		8	7/32	

No. 412 TAPPET WRENCH SET

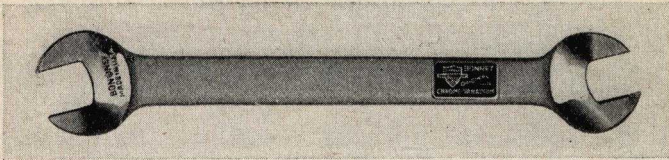


Eight Wrenches, two each of four sizes, make up the No. 412 Set. The Wrenches were selected to cover the greatest number of cars and trucks. Wrenches included are 402, 403, 404 and 405 having openings of 1/2 inch, 9/16 inch, 5/8 inch and 11/16 inch. The angle of the one head, 22 1/2°, allows the mechanic to work in normally inaccessible locations. They are made of *Chrome-Vanadium* Steel and are Chrome-plated. Comes packed three ways.

NET PRICES

In Cardboard Box	\$3.25
In Leatherette Roll	3.70
In Metal Box	3.70

No. 420 Series 'CV' Chrome-Vanadium
Tappet Wrenches

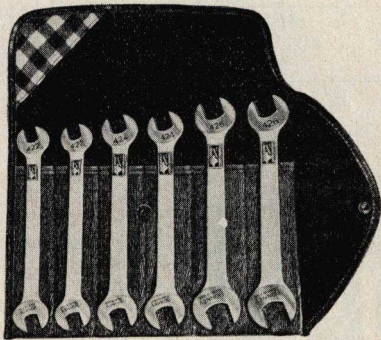


The 420 Series Bonney Tappet Wrenches combine lightness in weight with great strength. The heads are thin and pear shaped, and the Wrenches are long to make tappet adjusting easy. Both openings are of different size and are at an angle of 15°. Made of *Chrome-Vanadium* Steel and Chrome-plated.

Numbers, Sizes and Prices No. 420 Series Tappet Wrenches

Wrench No.	Openings Milled	S.A.E. Standard Screw and Nut	U.S.S. Bolt Size	Extreme Length	Thickness of Head	Net Price
420A	7/16 & 1/2	1/4 & 5/16	& 1/4	8	5/32	\$0.40
420	1/16 & 17/32	1/4 &	.....	8	5/32	.40
422	1/2 & 9/16	5/16 & 3/8	1/4 &	8	5/32	.40
424B	9/16 & 5/8	3/8 & 7/16	.....	8 1/2	3/16	.45
424	5/8 & 1/16	7/16 &	& 3/8	8 1/2	3/16	.45
424A	5/8 & 3/4	7/16 & 1/2	.....	8 1/2	3/16	.45
425	3/4 & 15/16	1/2 &	.....	9	7/32	.50
426	3/4 & 7/8	1/2 & 9/16	& 1/2	9	7/32	.50
428	15/16 & 1	5/8 & 11/16	.....	9 1/2	7/32	.60

No. 22 TAPPET WRENCH SET



No. 22 Tappet Wrench Set is complete and adaptable to almost every make of passenger car and truck. It contains two each of Nos. 422, 424, and 426, with openings of 1/2" and 3/16", 5/8" and 11/16", 3/4" and 7/8" respectively.

Due to the thin design of 420 Series Tappet Wrenches, they are not recommended for work other than tappet adjusting.

NET PRICES

In Cardboard Box.....	\$2.50
In Leatherette Roll.....	2.95

'CV' Chrome-Vanadium Right Angle Wrenches



Numbers, Sizes and Prices RIGHT ANGLE WRENCHES

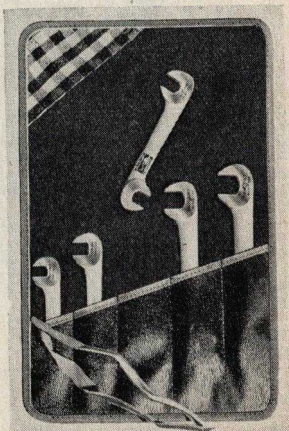
Wrench No.	U.S.S. Bolt Size	S.A.E. Std. Screw & Nut	Openings Milled	Extreme Length	Thickness of Head	Net Price
2721	$\frac{1}{8}$ &		$\frac{5}{16}$ & $\frac{3}{8}$	$4\frac{1}{4}$	$\frac{7}{32}$	\$0.35
2021	$\frac{1}{8}$ & $\frac{3}{16}$	.....	$\frac{5}{16}$ & $\frac{1}{2}$	$4\frac{1}{4}$	$\frac{7}{32}$	
2722	$\frac{1}{8}$ &	& $\frac{1}{4}$	$\frac{5}{16}$ & $\frac{7}{16}$	$4\frac{1}{4}$	$\frac{7}{32}$	
2723	.....	& $\frac{1}{4}$	$\frac{3}{8}$ & $\frac{7}{16}$	$4\frac{1}{4}$	$\frac{7}{32}$	
2022	$\frac{1}{8}$ & $\frac{1}{4}$	& $\frac{5}{16}$	$\frac{5}{16}$ & $\frac{1}{2}$	$4\frac{1}{2}$	$\frac{7}{32}$	.40
2023	$\frac{1}{16}$ & $\frac{1}{4}$	& $\frac{5}{16}$	$\frac{1}{2}$ & $\frac{1}{2}$	$4\frac{1}{2}$	$\frac{7}{32}$	
2723A	.....	& $\frac{5}{16}$	$\frac{3}{8}$ & $\frac{1}{2}$	$4\frac{1}{2}$	$\frac{7}{32}$	
2724	.....	& $\frac{3}{8}$	$\frac{3}{8}$ & $\frac{9}{16}$	$5\frac{1}{2}$	$\frac{15}{64}$	
2024	$\frac{3}{16}$ & $\frac{5}{16}$		$\frac{1}{2}$ & $\frac{1}{2}$	$5\frac{1}{2}$	$\frac{15}{64}$	.45
2725	& $\frac{1}{4}$	$\frac{1}{4}$ & $\frac{5}{16}$	$\frac{7}{16}$ & $\frac{1}{2}$	$5\frac{1}{2}$	$\frac{15}{64}$	
2725A	.....	$\frac{1}{4}$ & $\frac{3}{8}$	$\frac{7}{16}$ & $\frac{9}{16}$	$5\frac{1}{2}$	$\frac{15}{64}$	
2725B	.....	$\frac{5}{16}$ & $\frac{3}{8}$	$\frac{1}{2}$ & $\frac{9}{16}$	$5\frac{1}{2}$	$\frac{15}{64}$	
2025	$\frac{1}{4}$ & $\frac{5}{16}$	$\frac{5}{16}$ & $\frac{3}{8}$	$\frac{1}{2}$ & $\frac{1}{2}$	$5\frac{1}{2}$	$\frac{15}{64}$	.55
2726	$\frac{1}{4}$ & $\frac{3}{8}$	$\frac{5}{16}$ & $\frac{7}{16}$	$\frac{1}{2}$ & $\frac{5}{8}$	$6\frac{1}{2}$	$\frac{9}{32}$	
2026	$\frac{1}{4}$ & $\frac{3}{8}$	$\frac{5}{16}$ & $\frac{3}{8}$	$\frac{1}{2}$ & $\frac{11}{16}$	$6\frac{1}{2}$	$\frac{9}{32}$	
2727	.....	$\frac{3}{8}$ & $\frac{7}{16}$	$\frac{9}{16}$ & $\frac{5}{8}$	$6\frac{1}{2}$	$\frac{9}{32}$	
2027	$\frac{5}{16}$ & $\frac{3}{8}$		$\frac{1}{2}$ & $\frac{11}{16}$	$6\frac{1}{2}$	$\frac{9}{32}$	.70
2027C	& $\frac{3}{8}$	$\frac{3}{8}$ & $\frac{3}{8}$	$\frac{9}{16}$ & $\frac{11}{16}$	$6\frac{1}{2}$	$\frac{9}{32}$	
2028	$\frac{5}{16}$ & $\frac{7}{16}$	.....	$\frac{1}{2}$ & $\frac{25}{32}$	$7\frac{1}{2}$	$\frac{5}{16}$	
2728	.....	$\frac{3}{8}$ & $\frac{1}{2}$	$\frac{9}{16}$ & $\frac{3}{4}$	$7\frac{1}{2}$	$\frac{5}{16}$	
2028S	& $\frac{7}{16}$	$\frac{7}{16}$ & $\frac{1}{2}$	$\frac{5}{8}$ & $\frac{25}{32}$	$7\frac{1}{2}$	$\frac{5}{16}$	.95
2729	.....	$\frac{7}{16}$ & $\frac{1}{2}$	$\frac{5}{8}$ & $\frac{3}{4}$	$7\frac{1}{2}$	$\frac{5}{16}$	
2029	$\frac{3}{8}$ & $\frac{7}{16}$	.....	$\frac{11}{16}$ & $\frac{25}{32}$	$7\frac{1}{2}$	$\frac{5}{16}$	
2730	.....	$\frac{7}{16}$ & $\frac{3}{8}$	$\frac{5}{8}$ & $\frac{13}{16}$	$7\frac{1}{2}$	$\frac{5}{16}$	
2030	$\frac{3}{8}$ & $\frac{1}{2}$	$\frac{3}{8}$ & $\frac{9}{16}$	$\frac{11}{16}$ & $\frac{7}{8}$	$7\frac{1}{2}$	$\frac{5}{16}$	.95
2731	.....	$\frac{1}{2}$ & $\frac{9}{16}$	$\frac{3}{4}$ & $\frac{13}{16}$	9	$\frac{3}{8}$	
2731A	& $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{9}{16}$	$\frac{3}{4}$ & $\frac{7}{8}$	9	$\frac{3}{8}$	
2031	$\frac{7}{16}$ & $\frac{1}{2}$	& $\frac{9}{16}$	$\frac{25}{32}$ & $\frac{7}{8}$	9	$\frac{3}{8}$	
2731B	& $\frac{1}{2}$	& $\frac{9}{16}$	$\frac{13}{16}$ & $\frac{7}{8}$	9	$\frac{3}{8}$	.95
2732	.....	.....	$\frac{13}{16}$ & 1	9	$\frac{3}{8}$	
2032	$\frac{7}{16}$ & $\frac{9}{16}$	.....	$\frac{25}{32}$ & $\frac{31}{32}$	9	$\frac{3}{8}$	
2732A	.....	$\frac{1}{2}$ & $\frac{11}{16}$	$\frac{3}{4}$ & 1	9	$\frac{3}{8}$	
2033A	$\frac{1}{2}$ & $\frac{9}{16}$	$\frac{9}{16}$ & $\frac{5}{8}$	$\frac{7}{8}$ & $\frac{15}{16}$	9	$\frac{3}{8}$	.95
2033	$\frac{1}{2}$ & $\frac{9}{16}$	$\frac{9}{16}$ & $\frac{5}{8}$	$\frac{7}{8}$ & $\frac{31}{32}$	9	$\frac{3}{8}$	

Right Angle Wrench Set No. 40

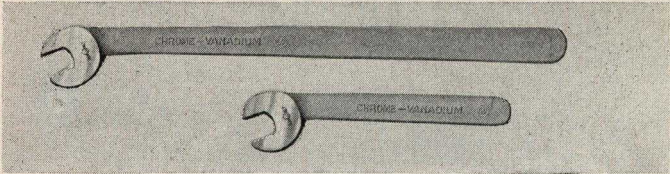
No. 40 Right-Angle Wrench Set is useful for work in close quarters such as often occurs on brakes, manifolds, cylinder heads and similar jobs. The heads of the Wrenches are pear shaped and of similar design to Bonney Engineers' Wrenches. Five Wrenches, Nos. 2723, 2025, 2027C, 2028S and 2731A make up the set. No openings are duplicated. Made of *Chrome-Vanadium* Steel and plated.

NET PRICES

In Cardboard Box.....\$2.70
In Leatherette Roll..... 3.20



Angle-Head Service Wrenches



Suitable for production and service work, and tappet adjustments on certain cars. Their jaws will take the full leverage of the long handles. Made of *Chrome-Vanadium* Steel and Chrome-plated.

Numbers, Prices, Sizes, ANGLE-HEAD SERVICE WRENCHES

Wrench No.	U.S.S. Bolt Size	Hex. Hd. Cp. Scr.	S.A.E. Std. Scr.& Nut	Open'g Milled	Extreme Length	Thickn's of Head	Net Price	
6" L ONG								
Short Hdle.	1401		$\frac{3}{16}$	$\frac{3}{8}$	6	$\frac{7}{32}$	\$0.75	
	1401A		$\frac{1}{4}$	$\frac{7}{16}$	6	$\frac{7}{32}$		
	1402	$\frac{1}{4}$		$\frac{1}{2}$	6	$\frac{7}{32}$		
	1402A			$\frac{17}{32}$	6	$\frac{7}{32}$		
	1403		$\frac{3}{8}$	$\frac{3}{8}$	6	$\frac{7}{32}$		
1403A	$\frac{5}{16}$			$\frac{9}{16}$	6	$\frac{7}{32}$		
9" L ONG								
Med. Hdle.	1404A		$\frac{3}{8}$	$\frac{3}{8}$	9	$\frac{9}{32}$	.95	
	1404		$\frac{7}{16}$	$\frac{7}{16}$	9	$\frac{9}{32}$		
	1405	$\frac{3}{8}$		$\frac{11}{16}$	9	$\frac{9}{32}$		
	1406		$\frac{1}{2}$	$\frac{1}{2}$	9	$\frac{9}{32}$		
12" L ONG								
Long Hdle.	1501		$\frac{3}{16}$	$\frac{3}{8}$	12	$\frac{7}{32}$	1.15	
	1501A		$\frac{1}{4}$	$\frac{7}{16}$	12	$\frac{7}{32}$		
	1502	$\frac{1}{4}$		$\frac{1}{2}$	12	$\frac{7}{32}$		
	1502A			$\frac{17}{32}$	12	$\frac{7}{32}$		
	1503		$\frac{3}{8}$	$\frac{3}{8}$	12	$\frac{7}{32}$		
	1503A	$\frac{5}{16}$		$\frac{9}{16}$	12	$\frac{7}{32}$		
	1504		$\frac{7}{16}$	$\frac{7}{16}$	12	$\frac{9}{32}$	1.30	
	1505	$\frac{3}{8}$		$\frac{11}{16}$	12	$\frac{9}{32}$		
	1506		$\frac{1}{2}$	$\frac{1}{2}$	$\frac{3}{4}$	12	$\frac{11}{32}$	1.40
	1506A	$\frac{7}{16}$			$\frac{25}{32}$	12	$\frac{11}{32}$	
	1507		$\frac{9}{16}$		$\frac{13}{16}$	12	$\frac{11}{32}$	
	1507A	$\frac{1}{2}$			$\frac{7}{8}$	12	$\frac{11}{32}$	
1508			$\frac{5}{8}$	$\frac{15}{16}$	12	$\frac{11}{32}$	1.50	
1508A	$\frac{9}{16}$			$\frac{31}{32}$	12	$\frac{11}{32}$		
1509		$\frac{3}{4}$	$\frac{11}{16}$	1	12	$\frac{11}{32}$		
1509A	$\frac{5}{8}$			$1\frac{1}{16}$	12	$\frac{11}{32}$		

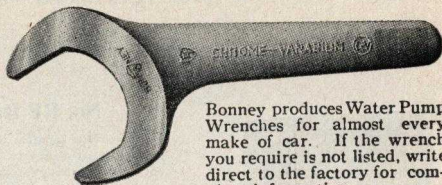
SINGLE-HEAD ENGINEERS' WRENCHES
15° Angle



Wr'h No.	Op'ng Milled	Ext reme Length	Th'kn's Head	Net Price	Wr'h No.	Op'ng Milled	Extr'e Length	Th'kn's Head	Net Price
1000	5/16	3 1/2	7/32	\$0.25	1005	7/8	8 1/8	7/16	\$0.70
1700	3/8	4	1/4		1006	31/32	9 1/4	1/2	.80
1000A	13/32	4	1/4		1706	1	9 1/4	1/2	
1701	7/16	4 5/8	9/32	.30	1007	1 1/16	10 1/2	9/16	1.05
1001	1/2	4 5/8	9/32		1707	1 1/8	10 1/2	9/16	
1702	9/16	5 1/2	5/16	.40	1008	1 1/4	12	5/8	1.40
1002	19/32	5 1/2	5/16		1708A	1 3/8	12	5/8	
1703	5/8	6 3/8	11/32	.50	1009	1 7/16	13 1/2	23/32	2.15
1003	11/16	6 3/8	11/32		1709	1 1/2	13 1/2	23/32	
1704	3/4	7 1/4	3/8	.60	1010	1 5/8	15	25/32	3.00
1004	25/32	7 1/4	3/8		1011	1 13/16	16 1/2	7/8	3.85
1705	13/16	8 1/8	7/16	.70	1012	2	18 1/4	15/16	5.35

Water Pump Packing Nut Wrenches

Due to the thinness of water pump packing nuts, and because most of them are made of brass, extreme care must be used in adjusting them. Bonney Water Pump Packing Nut Wrenches have been specially designed for this job. They have very thin heads and just the proper length handles to provide the correct leverage. Made of *Chrome-Vanadium* Steel and Chrome-plated. Openings are at an angle of 30°. The use of these Wrenches in other classes of work or with added leverage is not recommended.

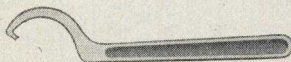


Bonney produces Water Pump Wrenches for almost every make of car. If the wrench you require is not listed, write direct to the factory for complete information.

WATER PUMP PACKING NUT WRENCHES

Wrench No.	Opening Milled	Length	Thickness of Head	Net Price
1224	$\frac{3}{4}$	7	$\frac{1}{4}$	\$0.90
1224A	$1\frac{1}{8}$	7	$\frac{1}{4}$	
1226	$1\frac{5}{16}$	7	$\frac{1}{4}$	
1228	$1\frac{7}{8}$	7	$\frac{1}{4}$	
1230	$1\frac{5}{16}$	7	$\frac{1}{4}$	
1232	1	7	$\frac{1}{4}$	
1232A	$1\frac{1}{32}$	7	$\frac{1}{4}$	
1234	$1\frac{1}{16}$	7	$\frac{1}{4}$	
1236	$1\frac{1}{8}$	7	$\frac{1}{4}$	
1236S	$1\frac{5}{16}$	7	$\frac{1}{4}$	
1236X	$1\frac{5}{16}$	7	$\frac{1}{32}$	
1238	$1\frac{3}{16}$	7	$\frac{1}{4}$	
1240	$1\frac{1}{4}$	7	$\frac{1}{4}$	
1241	$1\frac{9}{32}$	7	$\frac{1}{4}$	
1242	$1\frac{5}{16}$	$7\frac{3}{4}$	$\frac{9}{32}$	1.00
1244	$1\frac{3}{8}$	$7\frac{3}{4}$	$\frac{9}{32}$	
1246	$1\frac{7}{16}$	$7\frac{3}{4}$	$\frac{9}{32}$	
1248	$1\frac{1}{2}$	$7\frac{3}{4}$	$\frac{9}{32}$	
1250	$1\frac{9}{16}$	$7\frac{3}{4}$	$\frac{9}{32}$	
1252	$1\frac{5}{8}$	$7\frac{3}{4}$	$\frac{9}{32}$	
1256	$1\frac{3}{4}$	$8\frac{1}{2}$	$\frac{5}{16}$	1.25
1258	$1\frac{13}{16}$	$8\frac{1}{2}$	$\frac{5}{16}$	
1260	$1\frac{7}{8}$	$8\frac{1}{2}$	$\frac{5}{16}$	
1262	$1\frac{15}{16}$	$8\frac{1}{2}$	$\frac{5}{16}$	
1264	2	$8\frac{1}{2}$	$\frac{5}{16}$	
1264S	$2\frac{9}{16}$	$8\frac{1}{2}$	$\frac{5}{16}$	
1266	$2\frac{1}{16}$	$8\frac{1}{2}$	$\frac{5}{16}$	
1268	$2\frac{1}{8}$	$8\frac{1}{2}$	$\frac{5}{16}$	
1272	$2\frac{1}{4}$	$8\frac{1}{2}$	$\frac{5}{16}$	
1276	$2\frac{3}{8}$	$8\frac{1}{2}$	$\frac{5}{16}$	
1272S	$2\frac{1}{2}$	$8\frac{1}{2}$	$\frac{5}{16}$	

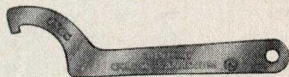
WATER PUMP SPANNERS



No. 2578A

This spanner greatly simplifies adjustment of the water pump packing nut on Pontiac cars. It is accurately and sturdily made.

NET PRICE\$0.85



No. 2545

Especially designed for water pump adjustments on Ford Model "A" and "AA". Length overall $5\frac{1}{4}$ inches. Thickness, $\frac{3}{16}$ inch.

NET PRICE\$0.60

WATER PUMP PACKING NUT WRENCH CHART

Make and Model of Car	Wrench No.	Make and Model of Car	Wrench No.
Buick, 40	1238	Packard, 8	1242
Buick, 60, 80, 90	1241	Packard, 12	1246
Chevrolet, Master	1232A	Packard, 120	2545
Chevrolet, Standard	1232A	Pontiac	2578A
Hupmobile, 6	1232	Reo	2545
Lafayette	1232	Studebaker, Dictator	1238
LaSalle	2545	Studebaker, Commander	1240
Nash	1232	Studebaker, President	1240
Oldsmobile	2578A		

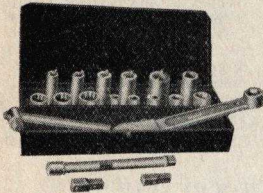
Electric Refrigeration Wrenches
and Tools

No. RF Refrigeration Set

Every Refrigeration Service Engineer needs this handy pocket size kit of sockets and ratchet. Suitable for practically any repairs requiring this type of tools.

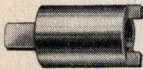
CONTENTS

No.	Description	No.	Description
RF15	Packing Gland Nut Socket	RF30	3/16" Valve Stem Socket
RF35	Packing Gland Nut Socket	RF32	3/8" Valve Stem Socket
RF19	Packing Gland Nut Socket	RF40	1/4" x 3/16" Male Adaptor
RF33	Packing Gland Nut Socket	RF41	1/4" x 3/8" Male Adaptor
RF34	Packing Gland Nut Socket	T14	1/16" Double-hexagon Socket
RF36	Kerotest Valve Packing Nut Socket.	T16	1/8" Double-hexagon Socket
RF26	3/16" Valve Stem Socket	T18	3/16" Double-hexagon Socket
RF27	3/32" Valve Stem Socket	M4	Extension, 4 1/2" long
RF28	1/4" Valve Stem Socket	M5	Sliding "T" Handle, 4" long
		RF22	Ratchet Handle



Contains 19 pieces in metal case 7 3/4" x 3 3/8" x 1 1/8". Weighs only 2 lbs. 3 ozs.

Net Price..... \$7.50



Packing Gland
Nut Sockets

1/4" Male Drive

Made of selected steel and plated. For use with Nos. RF22 and T28A ratchets.

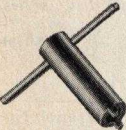
No.	Prong Depth	Prong Width	Inside Dia.	Outside Dia.	Overall Length	Net Price
RF6	1/8"	1/8"	3/8"	5/8"	1 3/8"	\$0.25
RF16	1/8"	1/8"	21/64"	15/32"	1 3/4"	.25



3/32 Female Drive

Made of selected steel and plated.

No.	Prong Depth	Prong Width	Inside Dia.	Outside Dia.	Overall Length	Net Price
RF15	3/32"	3/32"	5/16"	7/16"	1 1/2"	\$0.40
RF35	1/8"	1/8"	21/64"	15/32"	1 1/2"	.40
RF19	1/8"	7/64"	5/16"	9/16"	1 1/2"	.40
RF33	1/8"	1/8"	3/8"	5/8"	1 1/2"	.40
RF34	3/32"	3/32"	9/16"	13/16"	1 1/2"	.40



Tee Handle
Packing Gland
Nut Sockets

Made of selected steel, plated.

No.	Prong Depth	Prong Width	Inside Dia.	Outside Dia.	Overall Length	Net Price
RF17	1/8"	7/64"	21/64"	15/32"	2"	\$0.40
RF18	1/8"	7/64"	21/64"	9/16"	2"	.40

Valve Stem
Sockets



1/4" Male Drive

For use with Nos. RF22 and T28A Ratchet Wrenches. Made of selected steel and plated.

No.	Size Square Opening	O. S. Dia.		Length	Net Price
		Nose	Shank		
RF2	3/16"	27/64"	1/2"	1 3/8"	\$0.25
RF5	7/32"	1/2"	1/2"	1 3/8"	.25
RF3	1/4"	1/2"	1/2"	1 3/8"	.25
RF4	5/16"	9/16"	9/16"	1 3/8"	.25

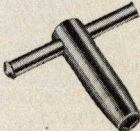
3/32 Female Drive

Made of selected steel, plated.



No.	Size Square Opening	O. S. Dia.		Length	Net Price
		Nose	Shank		
RF26	3/16"	27/64"	1/2"	7/8"	\$0.25
RF27	7/32"	15/32"	1/2"	7/8"	.25
RF28	1/4"	1/2"	1/2"	7/8"	.25
RF30	5/16"	9/16"	9/16"	7/8"	.25
RF32	3/8"	11/16"	11/16"	7/8"	.25

Tee Handle
Valve Stem
Sockets



Equipped with sliding cross handle. Made of selected steel and plated.

No.	Size Square Opening	Outside Dia.		Length	Net Price
		Nose	Shank		
RF10	3/16"	27/64"	1/2"	1 7/8"	\$0.30
RF11	7/32"	27/64"	1/2"	1 7/8"	.30
RF12	1/4"	1/2"	1/2"	1 7/8"	.30
RF13	5/16"	9/16"	9/16"	1 7/8"	.30
RF14	3/8"	5/8"	5/8"	1 7/8"	.35

Electric Refrigeration Wrenches and Tools (Continued)



3/8" Square Drive Sockets

Made of *Chrome-Vanadium Steel*, chrome-plated and buffed to a high, permanent lustre.

No.	Opening	Net Price
T14	7/16" Double Hexagon	\$0.40
T16	1/2" Double Hexagon	.40
T18	9/16" Double Hexagon	40

Ratchet Plug Adaptors



Made of *Chrome-Vanadium Steel* and plated. For use with Nos. F22 and T28A ratchets.

No.	Plug End	Drive End	Net Price
RF40	1/4"	9/16"	\$0.35
RF41	1/4"	3/8"	.35



Kerotest Valve Packing Nut Socket

9/32" Square Female Drive

Specially designed for repairs on Kerotest Valve Made of selected steel, plated.

No.	Obround Length	Open. Width	Outside Dia.	Length	Net Price
RF36	1/2"	3/8"	5/8"	1 1/2"	\$0.55

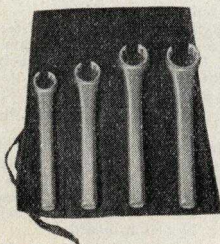
Flare Nut Wrenches



These Wrenches are specially designed for work on Flare Nuts. They are drop-forged from high quality Carbon Steel and are plated to produce a permanent finish. No. 72A Wrench may be used on 3/16 inch, 1/4 inch, 5/16 inch, 3/8 inch and 1/2 inch Flare Nuts. No. 73A is for use on 3/8 inch and 1/2 inch Flare Nuts.

No.	Openings	Length	Net Price
72A	3/4" x 1"	5 1/2"	\$0.45
73A	7/8" x 1 1/8"	6 1/8"	.55

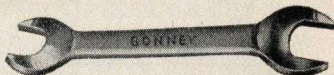
No. 54 Flare Nut Wrench Set



Contains one each Wrenches Nos. RF50, RF-51, RF52 and RF53 in canvas roll.

Net Price \$2.90

No. H18S Switch Adjusting Wrench for Frigidaire



Made of *Chrome-Vanadium Steel*, chrome plated, this wrench is designed especially for switch adjustments on the Frigidaire.

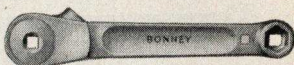
No.	Openings Milled	Length	Thickness of Head	Net Price
H18S	7/16" & 9/16"	4"	1/8"	\$0.50

Ratchet Wrenches



Made of *Chrome-Vanadium Steel*, chrome-plated, these ratchets are designed for extremely hard service. They are used for adjusting reducing valves.

No.	Opening	Net Price
T28A	1/4" Square	\$1.85
T28B	5/16" Square	1.85



Drop-forged of *Chrome-Vanadium Steel*, chrome plated, these ratchets are especially adapted to work on small refrigerant cylinders, shut-off and reducing valves, compressors, motors, etc.

No.	Ratchet Opening Square	Handle Openings Square	Handle Opening Hexagon	Lgth.	Net Price
RF21	3/16"	3/16" & 1/4"	1/2"	6"	\$0.85
RF22	1/4"	3/16" & 1/4"	1/2"	6"	0.85
RF23	5/16"	3/16" & 5/16"	1/2"	6"	0.85

Flare Nut Wrenches



Especially adapted to work on flare nuts, these wrenches have double-hexagon openings. Made of special alloy steel with plated finish. Heads are set at 10° to 15° angle depending upon length of wrench.

No.	Openings	Length	Net Price
RF50	3/4"	7"	\$0.65
RF51	7/8"	7 1/2"	.70
RF52	1"	8 1/2"	.75
RF53	1 1/8"	8 5/8"	.80

Miscellaneous Special Wrenches

Nos. 2420, 2422, 2424, 2426, 2428

Carbon Steel Rim Wrenches. One piece. Hexagon openings, No. 2420, $\frac{5}{8}$ " No. 2422, $1\frac{1}{16}$ ", No. 2424, $\frac{3}{4}$ ", No. 2426, $1\frac{3}{16}$ " and No. 2428, $\frac{7}{8}$ " openings.

Net Price.....\$0.40

No. 2544

For Mack truck tappet adjustments on Models "AB" and "AC". Length 12", $\frac{5}{16}$ " thick. $1\frac{1}{4}$ " opening.

Net Price.....\$2.00

Nos. 2552 and 2552A

Open-end offset Wrench for wire wheel spoke nipples. No. 2552 has $\frac{9}{16}$ " openings. No. 2552A has $1\frac{1}{4}$ " openings.

Net Price.....\$1.20

No. 2553

Bonney Rim Wrench, made of *Chrome-Vanadium* Steel has double-hexagon openings $\frac{5}{8}$ inch, $\frac{3}{4}$ inch, $1\frac{3}{16}$ inch and $\frac{7}{8}$ inch.

Net Price.....\$2.35

No. 2556

For adjusting Ford and Essex Terraplane headlamps. Opening $1\frac{5}{16}$ ". Length $8\frac{1}{4}$ ".

Net Price.....\$1.00

No. 2568

Rim Tool for Kelsey-Hayes and C.W.C. Trucks Overall length $18\frac{1}{2}$ ".

Net Price.....\$1.30

No. 2570

Adjustable Plier. Five notch slip joint pattern. Opens from 0" to 2". Length $9\frac{1}{2}$ ". Weight 8 oz.

Net Price.....\$1.00

No. 2578A

For adjusting water pump packing nut on Pontiac cars.

Net Price.....\$0.85

No. 2875

Wrench for battery terminal nuts. *ZENEL* steel. Has $\frac{9}{16}$ " and $\frac{5}{8}$ " double-hexagon openings. Length 6".

Net Price.....\$0.60

Nos. 2880 and 2880A

Wrenches for wire wheel valve stem nuts. No. 2880 has $2\frac{3}{16}$ " and $\frac{3}{4}$ " openings. No. 2880A has $1\frac{1}{16}$ " and $\frac{3}{4}$ " openings. Use on other than stem nuts is not recommended.

Net Price.....\$1.35

No. 2881 (see top page 41)

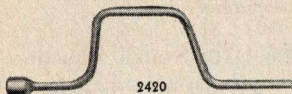
Designed for manifold and starter work on a large variety of cars. Made of *Chrome-Vanadium* Steel, Chrome-plated. Double-hexagon openings $\frac{9}{16}$ " and $\frac{5}{8}$ ". Length $7\frac{3}{4}$ ".

Net Price.....\$1.00

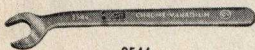
No. 4537 (see top page 41)

For 1934 Buick Steering Gear Eccentric. $1\frac{1}{8}$ " double-hexagon opening. Length overall, $8\frac{5}{8}$ ". Thickness of head, $\frac{3}{16}$ ". *Chrome-Vanadium* Steel and plated. Not guaranteed.

Net Price.....\$1.25



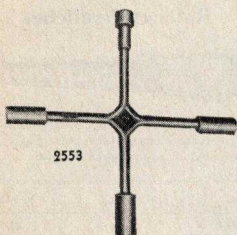
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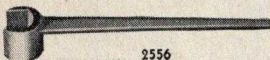
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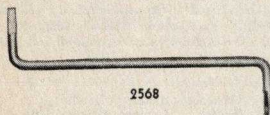
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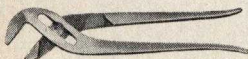
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2556



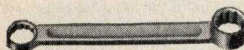
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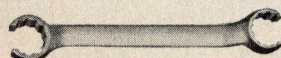
2570



2578A



2875



2880

Miscellaneous Special Wrenches

No. 4538

For 1934 Buick Steering Gear Eccentric Lock Nut and Roller Shaft Adjusting Lock Nut. Openings $1\frac{1}{16}$ " and $\frac{7}{8}$ " double-hexagon, Length $8\frac{3}{4}$ " *Chrome-Vanadium Steel* and plated.

Net Price\$1.35

No. 4539

Pontiac Steering Gear Eccentric Adjusting Wrench, $1\frac{1}{16}$ " double-hexagon opening. Head is $\frac{3}{16}$ " thick. Overall length $5\frac{1}{16}$ ". *Chrome-Vanadium Steel* and plated. Not guaranteed.

Net Price\$1.15

No. 4539A

For 1935 Chevrolet steering arm eccentric. $\frac{7}{8}$ " double-hexagon opening. $5\frac{3}{4}$ " long. Thickness of head, $\frac{3}{16}$ ".

Net Price\$1.15

No. 4540

For 1934 Pontiac Steering Gear Eccentric Lock Nut. Has $\frac{5}{8}$ " double-hexagon openings in both ends. Overall length. 10" *Chrome-Vanadium Steel* and plated.

Net Price\$1.35

No. 4565

Used to adjust 1934 Chevrolet and Pontiac Steering Arm Nut. Length overall, $17\frac{3}{4}$ ". Openings in both ends, $1\frac{1}{4}$ " double-hexagon. Made of *Chrome-Vanadium Steel* and plated.

Net Price\$2.35

No. 4566

Designed for Buick and Oldsmobile upper and lower Knuckle Support Yoke Nuts. Has $1\frac{1}{4}$ " and $1\frac{1}{16}$ " double-hexagon openings. Length, 19" overall. *Chrome-Vanadium Steel* and plated.

Net Price\$4.00

No. 4567

For making camber adjustments on 1934 Chrysler and Plymouth. $1\frac{1}{4}$ " double-hexagon opening.

Net Price\$2.00

No. 4567A

For making camber adjustments on 1935 Chrysler. $1\frac{1}{16}$ " double-hexagon opening.

Net Price\$2.00

Nos. 7940, 7941, 7942, 7944.

Numbers 7940 and 7941 for use on Ford "AA" Truck Rim Nuts. 7944 for Rim Nuts on other makes of trucks. No. 7940 has $1\frac{1}{16}$ inch square and $1\frac{1}{2}$ inch hexagon openings. No. 7941— $1\frac{1}{16}$ inch square and $1\frac{1}{2}$ inch hexagon openings. No. 7944— $\frac{7}{8}$ inch and $1\frac{1}{16}$ inch hexagon openings. No. 7942 Handle and Pry Bar, 20 inches long.

Net Prices

No. 7940.. \$1.50 No. 7941.. \$1.50

No. 7942.. 0.65 No. 7944.. 1.50

No. 2545—Spanner for Chrysler 75 and 80 Water Pump. See page 37.

Net Price\$0.60

No. T50—Special Tool for adjusting Zenith carburetor jets. Openings $\frac{5}{16}$ inch and $\frac{5}{16}$ inch. See page 42.

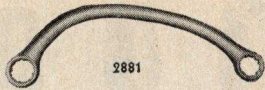
Net Price\$0.75

No. 2854—Special Box Wrench for All-American Oakland, Pontiac and Chrysler "4" cylinder starter cap screws. Has $\frac{5}{8}$ inch double-hexagon openings. See page 44.

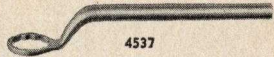
Net Price\$0.95

No. 4568—This is a $\frac{1}{4}$ inch set screw wrench to facilitate Chrysler Castor adjustment.

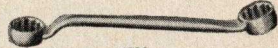
Net Price\$0.20



2881



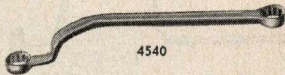
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4538



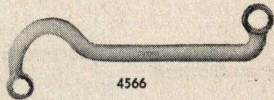
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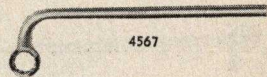
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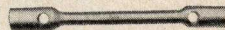
4565



4566



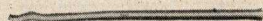
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7944



7940 7941



7942

Special Wrenches for Fords



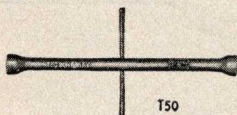
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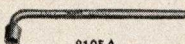
D-21



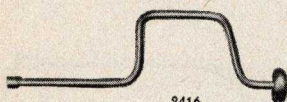
F18



T50



2105A



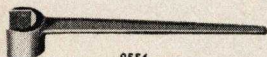
2416



2545



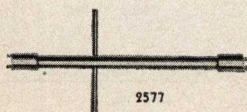
2549



2556



2575



2577

No. F18

Special socket for Ford V8 connecting rod bearing cap nuts. Has $\frac{3}{16}$ inch double-hexagon opening. $\frac{1}{2}$ inch square drive. *Chrome-Vanadium Steel.*

Net Price\$0.55

Nos. D21 and 4021

Used for adjusting Ford "A" and "AA" connecting rod bearing cap nuts. D21 has $\frac{21}{32}$ inch double-hexagon opening, 4021, $\frac{21}{32}$ inch single hexagon opening. Both have $\frac{1}{2}$ inch square drive. *Chrome-Vanadium Steel.*

Net Price D21\$0.40

Net Price 4021\$0.40

No. T50

Specially designed for jets in Model "A" Ford carburetor. Length 5 inches. Openings $\frac{9}{32}$ inch and $\frac{5}{16}$ inch.

Net Price\$0.75

No. 2105A

For making adjustments on Ford Model "A" connecting rods. Overall length 10 inches. Has $\frac{21}{32}$ inch hexagon opening.

Net Price\$0.85

No. 2416

Used on Model "A" "V8" and "B4" Ford Oil Pans. Has $\frac{1}{2}$ inch hexagon opening. Length 17 inches overall.

Net Price\$0.60

No. 2545

For Ford Model "A" and "AA" water pump. Length overall, $5\frac{1}{4}$ inches. Thickness $\frac{3}{16}$ inches.

Net Price\$0.60

No. 2549

For Ford Model "A", rear main bearing adjusting. Length is 15 inches and has a $\frac{3}{4}$ inch double-hexagon opening. Made of *Chrome-Vanadium steel.*

Net Price\$1.35

No. 2556

A convenient tool for adjusting Ford "V8" headlamps. Slot allows adjustment to be made without disconnecting wiring. Opening $\frac{15}{16}$ inch. Length $8\frac{1}{4}$ inches.

Net Price\$1.00

No. 2575

For Ford drain and filler plugs. The $\frac{15}{16}$ inch hexagon Socket used on crank case drain plugs. $\frac{1}{16}$ inch square male plug used on differential drain and filler plug. $\frac{3}{16}$ inch double square opening used on transmission filler plug and drain plug. Length $10\frac{1}{4}$ inches.

Net Price\$1.35

No. 2577

Designed for removing, replacing and adjusting main jets and fuel pump valves on Model V8. Both ends equipped with pins.

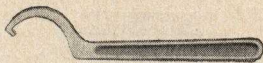
Net Price\$1.00

Special Wrenches for Fords

No. 2578

The No. 2578 Spanner for adjusting Ford V8 Fan Belts. Made of *Chrome-Vanadium Steel*.

Net Price\$0.85

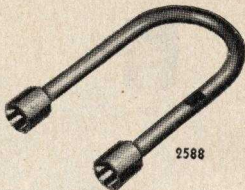


2578

No. 2586

A special tool for adjusting Ford V8 carburetor jets. Accurately made of *Chrome-Vanadium Steel* for precision adjustments.

Net Price\$0.50

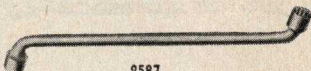


2586

No. 2587

For use on main bearings of Models "A", "AA", "B", "BB" and V8. Has $\frac{1}{16}$ inch double-square and $\frac{3}{4}$ inch double-hexagon openings. Length 16 inches.

Net Price\$1.35

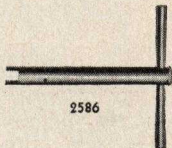


2587

No. 2588

A wrench for holding heads of main bearing bolts while tightening or adjusting main bearing cap nuts on the Ford V8. Has $\frac{1}{16}$ inch double-square openings. Made of *Chrome-Vanadium Steel* and plated.

Net Price\$1.50



2588

No. 2593

For disconnecting and connecting gasoline tank filler tube on late model V8 Fords, in order to remove or replace gas tank on left rear fender.

Net Price\$1.00

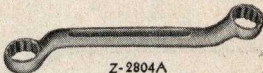


2593

No. Z2804A

A box wrench for use on Choke-Rod Nut on Models "A" and "AA" carburetors. Has $1\frac{1}{2}$ inch and $\frac{1}{16}$ inch double-hexagon opening. Length overall $5\frac{1}{8}$ inches. Forged from *ZENEL Steel*.

Net Price\$0.55



Z-2804A

No. 2857 and D2857

Brake Wrenches for adjusting Ford "A" and "AA" brakes. They have $\frac{1}{16}$ inch and $\frac{1}{2}$ inch openings. No. 2857 has square openings, No. D2857, double square openings. Overall length is $10\frac{1}{2}$ inches.

Net Price\$1.05



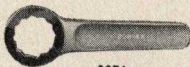
2857

No. 2876

Designed to remove crankshaft ratchet nut on Fords. Equipped with $1\frac{3}{8}$ inch double-hexagon opening. Length $6\frac{5}{8}$ inches. Forged of *Chrome-Vanadium Steel* and plated.

Note—Nut is unscrewed by placing wrench over it and stepping on starter. Chassis cross member holds wrench while nut unscrews.

Net Price\$0.85

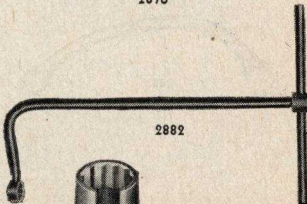


2876

No. 2882

For use in removing and replacing filler plug on V8 shock absorbers. Has $\frac{1}{16}$ inch double-square opening. Forged of *Chrome-Vanadium Steel*.

Net Price\$1.35



2882

No. 7241

Headlights may be adjusted with this socket without removing wire. Has $1\frac{1}{16}$ inch double-hexagon opening.

Net Price\$0.90



7241

Special Wrenches for Chevrolets



E12

No. E12

Ignition Wrench designed for Electro-lock Cable Nuts on Delco Remy electrical systems (Chevrolet). Made of *Chrome-Vanadium Steel*.

Net Price \$0.35



F22

Nos. F22 and F23

Special Sockets for 1933 model Chevrolets. F22, for center and rear main bearing cap screws, has $1\frac{1}{16}$ inch hexagon openings. F23 for front main bearing cap screws has $2\frac{3}{16}$ inch hexagon opening. Have $\frac{1}{2}$ inch square drives.

Net Price \$0.40



2540

No. 2540

For adjusting Chevrolet "4" main bearings. Overall length 13 inches. Wrench has $1\frac{1}{16}$ inch and $\frac{7}{8}$ inch double hexagon openings.

Net Price \$1.85

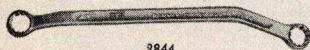


2840

No. 2840

Used for adjusting Chevrolet "6" main bearings. The Wrench has $\frac{5}{8}$ inch and $\frac{3}{4}$ inch double-hexagon openings. Overall length is 13 $\frac{1}{2}$ inches.

Net Price \$1.85

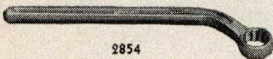


2844

No. 2844

To adjust manifold nuts, especially those of the Chevrolet "6". Length overall, 9 inches. Double-hexagon with openings of $\frac{5}{16}$ inch. Same openings both ends.

Net Price \$1.00



2854

No. 2854

For Chevrolet "6" starter cap screws. Length 7 $\frac{1}{2}$ inches, and has double-hexagon opening of $\frac{5}{8}$ inch.

Net Price \$0.95

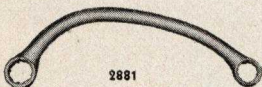


2858

No. 2858

For removing bowls of Chevrolet "6" carburetors. Length overall 7 $\frac{3}{4}$ inches. $\frac{3}{4}$ inch double-hexagon opening. Notice offset.

Net Price \$1.00

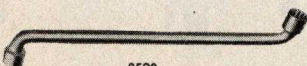


2881

No. 2881

Starter and manifold work on Chevrolet and other cars is simplified by this wrench. Has $\frac{5}{16}$ inch and $\frac{5}{8}$ inch double-hexagon openings. Length 7 $\frac{3}{4}$ inches. Forged of ZENEL Steel, chrome-plated.

Net Price \$1.00



2592

No. 2592

Especially designed for work on Chevrolet Main Bearings. Has $1\frac{1}{16}$ inch and $\frac{3}{4}$ inch double-hexagon openings. Overall length, 16 inches.

Net Price \$1.35

Brake Wrenches

No. 1721BR

For Bendix Brake Eccentric Adjustment. Openings $\frac{1}{2}$ " and $\frac{3}{16}$ " on one end, $\frac{5}{16}$ " on the other end. Length $4\frac{1}{8}$ ".
Net Price\$0.35

Long Engineers' Wrenches

For brake adjustment, spring clips, etc.

No. 1731AL. Length 15", thickness $\frac{3}{8}$ ", openings $\frac{3}{4}$ " and $\frac{7}{8}$ "......\$1.75

No. 1735L. Length 16", thickness $\frac{17}{32}$ ", openings 1" and $1\frac{1}{8}$ "......\$2.00

No. 1034AL. Length 16", thickness $\frac{17}{32}$ ", openings $\frac{15}{16}$ " and $1\frac{1}{16}$ "......\$2.00

Nos. 2526 to 2538

No. 2537 opening $\frac{1}{2}$ " on $22\frac{1}{2}$ " end, $\frac{9}{16}$ " on 60° end. No. 2538 opening $\frac{9}{16}$ " on $22\frac{1}{2}$ " end, $\frac{1}{2}$ " on 60° end. No. 2526 opening $\frac{5}{8}$ " on $22\frac{1}{2}$ " end, $\frac{5}{8}$ " on 60° end. No. 2526A opening $\frac{9}{16}$ " on $22\frac{1}{2}$ " end, $\frac{1}{4}$ " on 60° end. No. 2526B opening $\frac{11}{16}$ " on $22\frac{1}{2}$ " end, $\frac{11}{16}$ " on 60° end. $6\frac{1}{4}$ " long, heads $\frac{7}{16}$ " thick.
Net Price\$0.95

No. 2534

Designed for Chrysler Cars, $3\frac{1}{16}$ " long, $\frac{5}{8}$ " opening, head $\frac{7}{16}$ " thick.

Net Price\$0.60

Nos. 2535 and 2535A

No. 2535 for Dodge cars, $\frac{7}{8}$ " opening. No. 2535A for Hupmobile, 1926-27, $\frac{3}{4}$ " opening.

Net Price\$0.95

No. 2539 and 2539A

For Bendix Brakes. Openings, small end $\frac{1}{4}$ " and $\frac{1}{2}$ ". large end $\frac{3}{4}$ ". No. 2539A same as No. 2539 except openings $\frac{3}{16}$ " and $\frac{1}{2}$ " and $\frac{9}{16}$ " respectively.

Net Price\$1.20

No. 2561

Specially designed for Bendix Brake Eccentric $\frac{9}{16}$ " and $\frac{1}{4}$ " openings.

Net Price\$1.20

No. 2566 and 2566A

For Bendix Brakes on Hudson and Essex cars. 2566A is for 1933 Essex Terraplane "6" and "8".

Net Price\$0.45

No. 2581

For all Steel draulic Brakes. Overall length $5\frac{1}{2}$ ".

Net Price\$1.15

No. 2582

For adjusting anchor pins on 1935 and 1936 Pontiacs. Length 9".

Net Price\$0.50

No. 2583

Designed to remove and replace internal brake springs on all cars except Fords.

Net Price\$1.50

No. 2589

Useful in making certain brake and steering gear adjustments. Blade $\frac{5}{16}$ " thick, $\frac{1}{2}$ " wide. Overall length 7".

Net Price\$0.65

No. 2857 and D2857

For brake adjustments on Ford models "A" and "AA". $\frac{7}{16}$ " and $\frac{1}{2}$ " openings. No. 2857 has square openings; No. D2857, double-square openings.

Net Price\$1.05

No. 2862

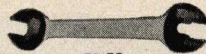
Used to adjust anchor bolts on Bendix Brakes. Especially adapted to hydraulic brakes on 1936 Buick. Double-hexagon openings $\frac{15}{16}$ " and $1\frac{1}{16}$ ". Length $15\frac{5}{8}$ ".

Net Price\$2.20

No. 4564

For Oldsmobile, Pontiac and Buick "40" brake anchor pins. Box end used on rear brakes, open end on front brakes. Both ends have $\frac{15}{16}$ " openings.

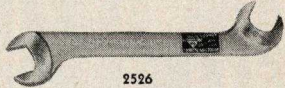
Net Price\$2.35



1721BR



1731AL



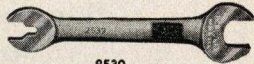
2526



2534



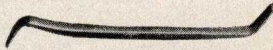
2535



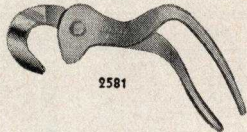
2539



2561



2566



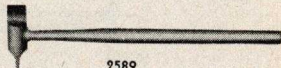
2581



2582



2583



2589



2857

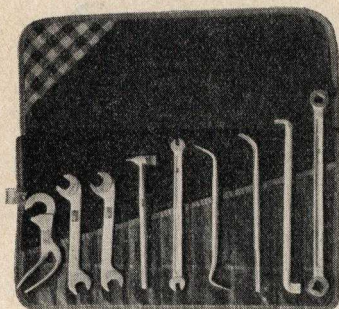


2862



4564

No. 41 Brake Wrench Set



An ideal, compact kit for making precision brake adjustments on the majority of modern cars and trucks. Contains one each

Nos. 2526	Nos. 2566	Nos. 2582
2526A	2566A	2589
2561	2581	2857

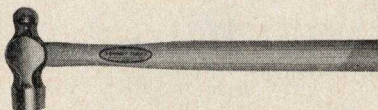
all illustrated on page 45. Supplied either in leatherette roll or cardboard box.

NET PRICES

In Cardboard Box	\$6.65
In Leatherette Roll	7.40

Bonney Hammers

BALL PEIN



The octagon shaped heads of Bonney Ball Pein Hammers are drop-forged from special hammer steel, while the handles are made of fine, straight-grained hickory. The handles are dipped to toughen the eye end and are forced into the head and securely locked in position by two steel wedges.

No.	Weight	Length	Net Price
PH1	2 oz.	10"	\$0.80
*PH2	3 1/2 oz.	11"	.80
PH6	3/4 lb.	14"	.80
PH7	1 lb.	14 1/2"	.85
PH9	1 1/2 lb.	16"	.95
PH10	2 lb.	16"	1.10
PH13	3 lb.	16"	1.45

* Known as a gasket hammer.

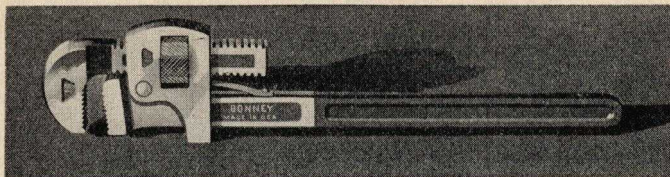
SOFT FACE



Bonney Soft Face Hammers are especially useful for fitting piston pins, wrist pins and for body and fender work. The tips are made of a tough, transparent material. New tips may be installed by turning the old tip loose with a pipe wrench and pressing on the new tip. The hammer is properly balanced and the hickory handle is securely locked in the head.

Number	Weight	Net Price
PH17	1 1/2 oz.	\$0.75
PH15	1/2 lb.	1.25
PH20	1 lb.	1.45
Extra Tip, Each		.45

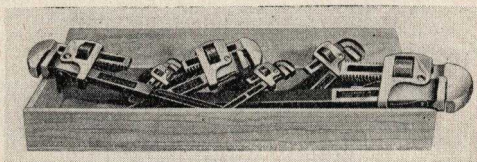
Stillson Wrenches



Bonney Stillson Wrenches are correctly designed and sturdily built. The handles and jaws are drop-forged and specially heat treated to produce tough, durable teeth. The knurled adjusting nut is machined from solid stock, to assure smooth working surfaces. The frame is a semi-steel casting. All parts fit accurately and snugly to produce maximum rigidity and still allow freedom of adjustment.

Length	Grips Pipe	Net Price	Length	Grips Pipe	Net Price
6"	1/8" to 1/2"	\$0.50	18"	1/4" to 2"	\$1.50
8"	1/8" to 3/4"	.60	24"	1/4" to 2 1/2"	2.25
10"	1/8" to 1"	.80	36"	1/4" to 3 1/2"	4.00
14"	1/4" to 1 1/2"	1.00			

No. 77 STILLSON WRENCH ASSORTMENT



The No. 77 Stillson Wrench Assortment was carefully selected to cover the complete range of requirements of Stillson Wrenches. It contains one each of the 6 inch, 8 inch, 10 inch, 14 inch, 18 inch and 24 inch Wrenches listed above. Packed in a strong wood box. Weight, 18 lb.

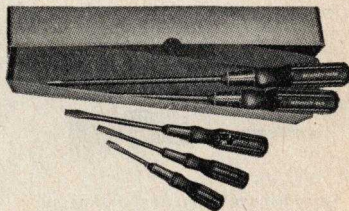
NET PRICE.....\$6.70

WOOD HANDLE SCREW DRIVERS

A quality line of popular priced wood handle screw drivers built to stand up under severe use. Blades are drop-forged from selected alloy steel, carefully heat-treated.

Bolsters firmly anchor the blades to the handles and tips are accurately ground. The hardwood handles are fluted to provide a firm, comfortable grip.

No.	Size Blade	Width of Tip	Net Price
W03	3"	1/32"	\$0.30
W04	4"	1/4"	.35
W06	6"	5/16"	.45
W08	8"	3/8"	.60
W010	10"	7/16"	.75



No. W05 SCREW DRIVER SET

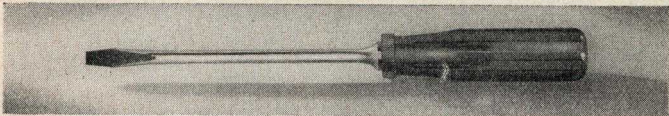
This set contains one each of the five wood handle screw drivers listed above. Practical and inexpensive, it will meet all needs for tools of this type. Packed in a strong cardboard box.

NET PRICE.....\$2.15

Screw Drivers

Bonney Screw Drivers have forged one-piece blades, except the Electricians' and Pocket size. They are carefully heat treated, ground and polished. The tough composition handles are non-conductors of electricity. Blades are firmly anchored in handles . . . and will not turn loose.

ROUND SHANK



Number	Size	Width of Tip	Net Price
04	4"	1/4"	\$0.65
06	6"	5/16"	.85
08	8"	3/8"	1.05
012	12"	1/2"	1.30

The Forged one-piece blades are forced into the handles against upset shoulders to assure a tight fit. Blades are heat treated. Handles tough transparent composition.

SQUARE SHANK

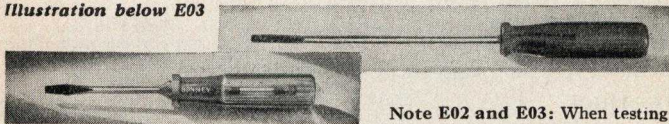


Number	Size	Width of Tip	Net Price
S04	4"	5/16"	\$0.70
S06	6"	7/16"	.95
S08	8"	1/2"	1.15
S012	12"	1/2"	1.40

Blades forged, one-piece, heat treated throughout. Handle non-conductor of electricity. Tip is not merely an extension of two square shank surfaces, but is forged and taper ground

ELECTRICIANS'

Illustration below E03

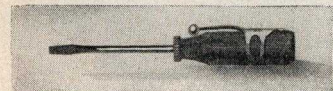


Note E02 and E03: When testing, brilliant orange flash shows plug O.K. Completely shorted plug . . . no flash. Stringy flash . . . plug partly fouled.

Number	Size	Width of Tip	Net Price
003	3"	3/16"	\$0.50
006	6"	3/16"	.65
0010	10"	3/16"	.75
E02	2 1/4"	1/8"	.50
E03	3"	3/16"	1.00
E03 Extra Neon Tube. Each			.25

Widely used in electrical work. Same quality and finish as other Bonney Screw Drivers E02 and E03 are equipped with Neon Tube in handle for spark plug testing.

POCKET SIZE



Very handy! Clip for holding in pocket comes with each driver. Blade heat treated. Handle made of non-conducting composition.

No.	Size	Width of Tip	Net Price
001	2"	1/8"	\$0.25

ADJUSTING



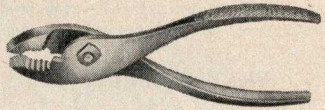
Strong and sturdy! The handle fits comfortably in the hand and provides a strong grip. Handle transparent and non-conductor of electricity.

No.	Size	Width of Tip	Net Price
S01	1 3/4"	1/4"	\$0.45
S02	1"	1/4"	.40

Bonney Pliers

COMBINATION PLIERS

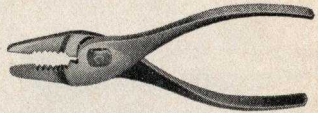
This series of combination pliers satisfies the demand for a line of pliers for general all-purpose work. Accurately made of special steel to give unusually long life, they are full-finished with knurled handles. Great care has been taken in their design to give that perfect balance which promotes speedy work. No. B15 has the added feature of side-cutting jaws.



No.	Description	Net Price
B5	Combination Plier 5".....	\$0.35
B6	Combination Plier 6".....	.35
B8	Combination Plier 8".....	.45
B10	Combination Plier 10".....	.65
B15	Combination Plier (Side Cutting) 6".....	.50

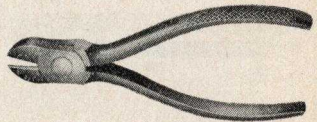
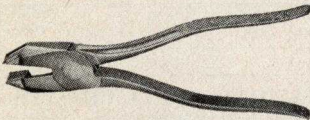
THIN NOSE COMBINATION PLIERS

Pliers designed with thin nose have many different uses. They are especially valuable for work in cramped spaces. Made of highest grade alloy steel, fully polished and plated with knurled handle.



No.	Description	Net Price
B11	Combination Plier (Thin Nose) 5".....	\$0.35
B12	Combination Plier (Thin Nose) 6".....	.35

CUTTING PLIERS



LINEMAN'S

Forged from alloy steel, light in weight and of great strength. Handles fit the hand perfectly and are knurled. Cutting qualities are unsurpassed. Full polished finish.

DIAGONAL

This sturdy Diagonal Cutting Plier is drop-forged from special analysis steel. Cutting edges are built to give long, hard service. Full polished finish with knurled handles.

No.	Description	Net Price
B22	Lineman's Plier, 6".....	\$0.65
B23	Lineman's Plier, 8".....	.95
B17	Diagonal Plier.....	.55

BATTERY PLIERS

Bonney Battery Pliers are designed especially for removing battery terminal nuts in the "hard-to-get-at" places. Drop-forged of special alloy steel for strength. Head set at 50° angle with tapered nose. Length 8".



No. B20 Net Price.....**\$0.80**

LOCK RING PLIERS



Designed especially to spread the snap lock-rings and horseshoe type of brake key in order to remove them, from brakes, transmissions, differentials, pedals, clutch and fan pulley shafts. Drop forged of chrome-alloy steel, chrome-plated with high permanent lustre. Outside of jaws are toothed to prevent any possibility of slipping. Plier will spread any lock ring washer up to 1 1/4" in diameter. Length 8".

No. B21 Net Price.....**\$1.00**

CHISELS

Bonney Chisels and Punches listed on these pages are made of special, alloy steel, are forged and heat treated. The bits are hard and tough enough to work on any untempered material, but still soft enough to be resharpened with a file.

FLAT CHISELS



No.	Size Stock	Width of Cut	Length	Net Price
C1	1/4"	5/16"	5"	\$0.35
C2	3/8"	1/2"	5 1/2"	.40
C3	1/2"	5/8"	6"	.45
C4	5/8"	3/4"	6 1/2"	.55
C5	3/4"	7/8"	7 1/2"	.65
C6	7/8"	1"	8"	.85
C7	1"	1 1/4"	8 1/2"	1.05

CAPE CHISELS



No.	Size Stock	Width of Cut	Length	Net Price
C12	1/2"	1/4"	6"	\$0.45
C13	5/8"	3/8"	7"	.55

RIVET BUSTERS



No.	Size Stock	Width of Cut	Length	Net Price
C36	3/4"	5/8"	12"	\$1.05

ROUND NOSE CHISELS



No.	Size Stock	Point Diam.	Length	Net Price
C18	1/2"	1/4"	6"	\$0.45
C19	5/8"	3/8"	7"	.55

LONG FLAT CHISEL



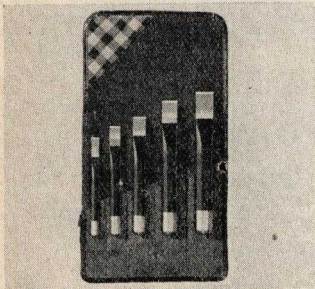
No.	Size Stock	Width of Cut	Length	Net Price
C10	3/4"	7/8"	14"	\$1.05

DIAMOND POINT CHISELS



No.	Size Stock	Width of Cut	Length	Net Price
C15	1/2"	1/4"	6"	\$0.45
C16	5/8"	3/8"	7"	.55

FLAT CHISEL SET NO. C45



The C45 Set completely covers the range of chisel requirements of the average mechanic. It contains five Flat Chisels, Nos. C2, C3, C4, C5 and C6, having width of cut of 1/2", 5/8", 3/4", 7/8" and 1" respectively. They are forged from high quality alloy steel and are heat treated to assure a hard, tough working bit. Their octagon handles offer an easy, secure grip.

NET PRICES

In Cardboard Box.....\$2.60
In Leatherette Roll.....\$2.95

LINING UP PUNCHES



No. 8386 Lining-up Punch — 5/8" stock, 5/16" point. Length 15".
NET PRICE.....\$1.50
No. 8385 Lining-up Punch— 3/4" stock, 5/16" point. Length 18".
NET PRICE.....\$2.25

PUNCHES

LONG TAPER PUNCHES

No.	Size Stock	Point Diam.	Length	Net Price
C25	$\frac{3}{8}$ "	$\frac{5}{32}$ "	8"	\$0.45
C26	$\frac{1}{2}$ "	$\frac{3}{16}$ "	9"	.55



PIN PUNCHES

No.	Size Stock	Point Diam.	Length	Net Price
C28	$\frac{3}{8}$ "	$\frac{1}{8}$ "	5"	\$0.35
C29	$\frac{1}{2}$ "	$\frac{3}{16}$ "	$5\frac{5}{8}$ "	.40
C30	$\frac{5}{8}$ "	$\frac{1}{4}$ "	$6\frac{3}{8}$ "	.50



PRICK PUNCH

No.	Size Stock	Length	Net Price
C32	$\frac{3}{8}$ "	5"	\$0.30



CENTER PUNCH

No.	Size Stock	Length	Net Price
C34	$\frac{3}{8}$ "	5"	\$0.30



SOLID PUNCHES

No.	Size Stock	Point Diam.	Length	Net Price
C21	$\frac{3}{8}$ "	$\frac{1}{16}$ "	$5\frac{1}{2}$ "	\$0.35
C22	$\frac{1}{2}$ "	$\frac{3}{32}$ "	$6\frac{1}{4}$ "	.40
C23	$\frac{5}{8}$ "	$\frac{1}{8}$ "	7"	.50



PRY or PINCH BAR

No.	Size Stock	Length	Net Price
C38	$\frac{5}{8}$ "	16"	\$1.15

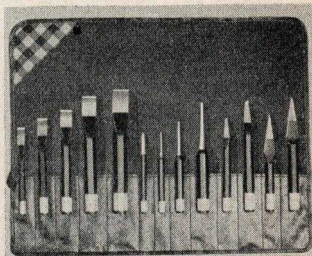


CHISEL and PUNCH SET No. C46

The No. C46 Set provides the mechanic with a compact and complete assortment of chisels and punches to cover his every day requirements. Nine Chisels and four Punches make up the set, as follows: Flat Chisels Nos. C2, C3, C4, C5, C6; Cape Chisels Nos. C12 and C13 and Diamond Point Chisels Nos. C15 and C16, Pin Punches Nos. C28, C29, C30 and Center Punch C34 make up the remainder of the Set.

NET PRICES

In Cardboard Box\$5.80
In Leatherette Roll\$6.25



CHISEL and PUNCH SET No. C47

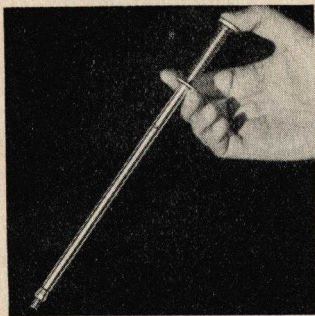
For mechanics who require a complete line of punches and chisels there is no better assortment than the Bonney C47 Set. It contains thirteen chisels, ten punches, a Rivet Buster and a Pry or Pinch Bar. Chisels included—Flat Chisels Nos. C2, C3, C4, C5, C6, C7; Cape Chisels C12 and C13; Long Flat Chisel C10; Diamond Point Chisels Nos. C15 and C16; Round Nose Chisels C18 and C19. Punches included—Long Taper Punches Nos. C25 and C26; Prick Punch C32; Solid Punches C21, C22, C23; Pin Punches C28, C29, C30; Center Punch C34. Rivet Buster C36 and Pry or Pinch Bar C38.

NET PRICES

In Cardboard Box\$12.90
In Leatherette Roll 14.10

A Page of Handy Miscellaneous Tools

HOLDING TOOL



A practical holding tool that should be in every mechanic's kit. It works equally well on screws, washers, nuts, bolts, taper pins, valve pins and similar objects. The four fingers (made of spring steel) are forced outward and open when pressure is placed on the plunger. When the pressure is released the strong coil spring closes the fingers tightly around the object. It is impossible for that object to lean over or fall out. Finished in nickel and made in three sizes.

No.	Reach	Overall Length	Net Price
K4	4"	6 3/4"	\$0.80
K6	6"	8 3/4"	.85
K8	8"	10 3/4"	.90

BONNEY SHOP KNIFE No. 199

No mechanic's tool kit is complete without a good, sharp knife. The Bonney Shop-Knife No. 199 "fills the bill" in every way. It is strong, light in weight and perfectly balanced. Six "razor-keen" blades are in a handle with rust-proof finish. Especially suited for trimming upholstery, top-



material, rubber, leather, etc. and for cutting gaskets, shims, kickboards, masking tape, cardboard, etc. Turn the blade cross-wise in the handle and it makes a dandy scraper for removing old inspection stickers from windshields.

Net Price.....\$1.25
Net Price, extra package of 5 Blades.....0.40

No. E55 TWEEZER

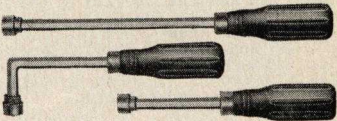


An inexpensive accessory that will prove mighty convenient to have around. Just the thing for picking up small screws, nuts, springs, etc. that drop

into inaccessible places. Made of good quality steel, plated and polished. 5" long
Net Price.....\$0.25

BONNEY SPINNER WRENCHES

Designed especially for reaching the little nuts that can be handled only with exceptionally small sockets. Made like a screw driver with a hexagon socket on the end that grips the nut firmly. Shanks are of 1/4" hexagon rod that can be gripped with pliers or wrench to loosen an unusually tight-nut—and the end is hollow so that socket can reach down over screw and grip the nut.



The inside knurled socket is graduated in size to take care of knurled nuts without distorting them. Shanks and sockets have bright, cadmium finish.

No.	Hexagon Opening	Overall Length	Net Price	No.	Hexagon Opening	Overall Length	Net Price
K10	3/16"	9" Straight	\$0.17	K21	3/8"	6" Straight	\$.17
K11	1/4"	9" Straight	.17	K22	7/16"	6" Straight	.17
K12	5/16"	9" Straight	.17	K23	Inside Knurl	6" Straight	.17
K13	11/32"	9" Straight	.17	K24	3/16"	6" Offset	.17
K14	3/8"	9" Straight	.17	K25	1/4"	6" Offset	.17
K15	7/16"	9" Straight	.17	K26	5/16"	6" Offset	.17
K16	Inside Knurl	9" Straight	.17	K27	11/32"	6" Offset	.17
K17	3/16"	6" Straight	.17	K28	3/8"	6" Offset	.17
K18	1/4"	6" Straight	.17	K29	7/16"	6" Offset	.17
K19	5/16"	6" Straight	.17	K30	Inside Knurl	6" Offset	.17
K20	11/32"	6" Straight	.17				

Decimal Equivalents of Fractions of an Inch and Decimal Designations

Fraction	Decimals	Designations	Fraction	Decimals	Designations
	0.0001	One ten-thousandth	$\frac{11}{32}$	0.3437	Eleven thirty-seconds
	0.00025	One-quarter thousandth	$\frac{23}{64}$	0.3593	Twenty-three sixty-fourths
	0.0005	One-half thousandth	$\frac{3}{8}$	0.375	Three eighths
	0.00075	Three-quarter thousandth	$\frac{25}{64}$	0.3906	Twenty-five sixty-fourths
	0.001	One thousandth	$\frac{13}{32}$	0.4062	Thirteen thirty-seconds
	0.00125	One and one quarter thousandth	$\frac{27}{64}$	0.4218	Twenty-seven sixty-fourths
	0.0015	One and one half thousandth	$\frac{7}{16}$	0.4375	Seven sixteenths
	0.00175	One and three-quarters thousandth	$\frac{29}{64}$	0.4531	Twenty-nine sixty-fourths
	0.002	Two thousandths	$\frac{15}{32}$	0.4687	Fifteen thirty-seconds
	0.0025	Two and a half thousandths	$\frac{31}{64}$	0.4843	Thirty-one sixty-fourths
	0.003	Three thousandths	$\frac{1}{2}$	0.5	One-half
	0.005	Five thousandths	$\frac{33}{64}$	0.5156	Thirty-three sixty-fourths
	0.0075	Seven and one-half thousandths	$\frac{17}{32}$	0.5312	Seventeen thirty-seconds
	0.010	Ten one-thousandths	$\frac{35}{64}$	0.5468	Thirty-five sixty-fourths
	0.0125	Twelve and one-half thousandths	$\frac{9}{16}$	0.5625	Nine sixteenths
	0.015	Fifteen thousandths	$\frac{37}{64}$	0.5781	Thirty-seven sixty-fourths
$\frac{1}{64}$	0.0156	One sixty-fourth	$\frac{19}{32}$	0.5937	Nineteen thirty-seconds
	0.020	Twenty thousandths	$\frac{39}{64}$	0.6093	Thirty-nine sixty-fourths
	0.025	Twenty-five thousandths	$\frac{5}{8}$	0.625	Five-eighths
	0.030	Thirty thousandths	$\frac{41}{64}$	0.6406	Forty-one sixty-fourths
$\frac{1}{32}$	0.0312	One thirty-second	$\frac{21}{32}$	0.6562	Twenty-one thirty-seconds
	0.035	Thirty-five thousandths	$\frac{43}{64}$	0.6718	Forty-three sixty-fourths
	0.040	Forty thousandths	$\frac{11}{16}$	0.6875	Eleven sixteenths
$\frac{3}{64}$	0.0468	Three sixty-fourths	$\frac{45}{64}$	0.7031	Forty-five sixty-fourths
$\frac{1}{16}$	0.0625	One sixteenth	$\frac{23}{32}$	0.7187	Twenty-three thirty-seconds
$\frac{5}{64}$	0.0781	Five sixty-fourths	$\frac{47}{64}$	0.7343	Forty-seven sixty-fourths
$\frac{3}{32}$	0.0937	Three thirty-seconds	$\frac{3}{4}$	0.750	Three fourths
$\frac{7}{64}$	0.1093	Seven sixty-fourths	$\frac{49}{64}$	0.7656	Forty-nine sixty-fourths
$\frac{1}{8}$	0.125	One eighth	$\frac{25}{32}$	0.7812	Twenty-five thirty-seconds
$\frac{9}{64}$	0.1406	Nine sixty-fourths	$\frac{51}{64}$	0.7968	Fifty-one sixty-fourths
$\frac{5}{32}$	0.1562	Five thirty-seconds	$\frac{13}{16}$	0.8125	Thirteen sixteenths
$\frac{11}{64}$	0.1718	Eleven sixty-fourths	$\frac{53}{64}$	0.8281	Fifty-three sixty-fourths
$\frac{3}{16}$	0.1875	Three sixteenths	$\frac{27}{32}$	0.8437	Twenty-seven thirty-seconds
$\frac{13}{64}$	0.2031	Thirteen sixty-fourths	$\frac{55}{64}$	0.8593	Fifty-five sixty-fourths
$\frac{7}{32}$	0.2187	Seven thirty-seconds	$\frac{7}{8}$	0.875	Seven eighths
$\frac{15}{64}$	0.2343	Fifteen sixty-fourths	$\frac{57}{64}$	0.8906	Fifty-seven sixty-fourths
$\frac{1}{4}$	0.25	One fourth	$\frac{29}{32}$	0.9062	Twenty-nine thirty-seconds
$\frac{17}{64}$	0.2656	Seventeen sixty-fourths	$\frac{59}{64}$	0.9218	Fifty-nine sixty-fourths
$\frac{9}{32}$	0.2812	Nine thirty-seconds	$\frac{15}{16}$	0.9375	Fifteen sixteenths
$\frac{19}{64}$	0.2968	Nineteen sixty-fourths	$\frac{61}{64}$	0.9531	Sixty-one sixty-fourths
$\frac{5}{16}$	0.3125	Five sixteenths	$\frac{31}{32}$	0.9687	Thirty-one thirty-seconds
$\frac{21}{64}$	0.3281	Twenty-one sixty-fourths	$\frac{63}{64}$	0.9843	Sixty-three sixty-fourths

Other Bonney Products

An Invitation to Mechanics

A varied and complete line of wrenches for special jobs is also produced. Many of these it has been impossible to list. If you require a special wrench that is not listed or have an idea for one, we invite you to write direct to the factory giving full details. It is very likely that we have produced one for the job.

BONNEY "EXPERT" QUILTS

The game of Quoits is interesting and one of skill. It is very popular in many sections of the country.

Bonney "Expert" Quoits bring out the "best" in the player's skill. They are designed for use by quoit clubs, experts and men who want quoits of uniform size, shape and weight.

"Expert" Quoits will withstand years of use. They are drop forged from special "SiMang" Steel and are heat treated by an exclusive process developed by Bonney. Write for complete information and prices.

Standard Drill Sizes
Up to 1 inch

Drill	Diam. Inches	Drill	Diam. Inches	Drill	Diam. Inches	Drill	Diam. Inches
80	.0135	$\frac{3}{32}$	.0937	6	.2040	$\frac{13}{32}$	.4062
79	.0145	41	.0960	5	.2055	Z	.4130
$\frac{1}{64}$	.0156	40	.0980	4	.2090	$\frac{27}{64}$	.4219
78	.0160	39	.0995	3	.2130	$\frac{7}{16}$	.4375
77	.0180	38	.1015	$\frac{7}{32}$	.2187	$\frac{29}{64}$	.4531
76	.0200	37	.1040	2	.2210	$\frac{15}{32}$	.4687
74	.0225	36	.1065	1	.2280	$\frac{31}{64}$	.4843
73	.0240	$\frac{7}{64}$	.1094	A	.2340	$\frac{1}{2}$	.5
72	.0250	35	.1100	$\frac{15}{64}$	.2344	$\frac{35}{64}$	.5156
71	.0260	34	.1110	B	.2380	$\frac{17}{32}$	.5312
70	.0280	33	.1130	C	.2420	$\frac{35}{64}$	.5469
69	.0292	32	.1160	D	.2460	$\frac{9}{16}$	.5625
68	.0310	31	.1200	E	.2500	$\frac{37}{64}$	.5781
$\frac{1}{32}$	.3130	$\frac{1}{8}$	.1250	$\frac{1}{4}$	.2500	$\frac{19}{32}$	.5937
67	.0320	30	.1285	F	.2570	$\frac{39}{64}$	.6094
66	.0330	29	.1360	G	.2610	$\frac{5}{8}$	.6250
65	.0350	28	.1405	$\frac{17}{64}$	.2656	$\frac{41}{64}$	.6406
64	.0360	$\frac{9}{64}$	.1406	H	.2660	$\frac{21}{32}$	.6562
63	.0370	27	.1440	I	.2720	$\frac{43}{64}$	.6719
62	.0380	26	.1470	J	.2770	$\frac{11}{16}$	.6875
61	.0390	25	.1495	K	.2810	$\frac{45}{64}$	.7031
60	.0400	24	.1520	$\frac{9}{32}$	.2812	$\frac{25}{32}$	.7187
59	.0410	23	.1540	L	.2900	$\frac{47}{64}$	.7344
58	.0420	$\frac{5}{32}$	.1562	M	.2950	$\frac{3}{4}$	.75
57	.0430	22	.1570	$\frac{19}{64}$	.2969	$\frac{49}{64}$	.7656
56	.0465	21	.1590	N	.3020	$\frac{25}{32}$	.7812
$\frac{3}{64}$	.0469	20	.1610	$\frac{5}{16}$	.3125	$\frac{51}{64}$	.7969
55	.0520	19	.1660	O	.3160	$\frac{13}{16}$	.8125
54	.0550	18	.1695	P	.3230	$\frac{53}{64}$	.8281
53	.0595	$\frac{11}{64}$	.1719	$\frac{21}{64}$	.3281	$\frac{27}{32}$	.8437
$\frac{1}{16}$	.0625	17	.1730	Q	.3320	$\frac{55}{64}$	.8594
52	.0635	16	.1770	R	.3390	$\frac{7}{8}$	.8750
51	.0670	15	.1800	$\frac{11}{32}$	.3437	$\frac{57}{64}$	.8906
50	.0700	14	.1820	S	.3480	$\frac{29}{32}$	.9062
49	.0730	13	.1850	T	.3580	$\frac{59}{64}$	.9219
48	.0760	$\frac{5}{16}$	.1875	$\frac{23}{64}$	.3594	$\frac{15}{16}$	.9375
$\frac{5}{64}$	.0781	12	.1890	U	.3680	$\frac{61}{64}$	.9531
47	.0785	11	.1910	$\frac{3}{8}$	.3750	$\frac{31}{32}$	.9687
46	.0810	10	.1935	V	.3770	$\frac{63}{64}$	.9844
45	.0820	9	.1960	W	.3860	1	1.0000
44	.0860	8	.1990	$\frac{25}{64}$	.3906		
43	.0890	7	.2010	X	.3970		
42	.0935	$\frac{13}{64}$	.2031	Y	.4040		

Determining the Correct Drill
for Tapped Holes

A simple and easy method to determine the correct drill for a tapped hole is as follows: use a screw pitch gage on the screw or bolt you expect to use on the tapped hole. The screw pitch gage will give you the type and size of the thread. Then refer to the table at the right to find the correct size drill for the job.

U. S. S.			S. A. E.		
Diam. of Tap in Inches	Threads per inch	Size of Drill No.	Diam. of Tap in inches	Threads per inch	Size of Drill No.
$\frac{1}{4}$	20	8	$\frac{1}{4}$	28	3
$\frac{5}{16}$	18	$\frac{1}{4}$	$\frac{5}{16}$	24	$\frac{9}{32}$
$\frac{3}{8}$	16	$\frac{5}{16}$	$\frac{3}{8}$	24	$\frac{11}{32}$
$\frac{7}{16}$	14	$\frac{23}{64}$	$\frac{7}{16}$	20	$\frac{25}{64}$
$\frac{1}{2}$	13	$\frac{27}{64}$	$\frac{1}{2}$	20	$\frac{29}{64}$
$\frac{9}{16}$	12	$\frac{31}{64}$	$\frac{9}{16}$	18	$\frac{33}{64}$
$\frac{5}{8}$	11	$\frac{17}{32}$	$\frac{5}{8}$	18	$\frac{37}{64}$
$\frac{3}{4}$	10	$\frac{21}{32}$	$\frac{3}{4}$	16	$\frac{11}{16}$
$\frac{7}{8}$	9	$\frac{49}{64}$	$\frac{7}{8}$	14	$\frac{13}{16}$
1	8	$\frac{7}{8}$	1	14	$\frac{15}{16}$

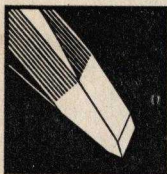
Chart of Wrench and Socket Openings and Sizes of Bolts and Nuts Which They Fit

Wrench Opening in Inches	The Dimensions given below are the outside diameters of the threads in inches				
	S.A.E. Std. Screws and Nuts	U. S. S.		American Std.	
		Nuts	Cap Screws	Nuts	Screws
$\frac{3}{16}$				Nos. 2 & 3	
$\frac{7}{32}$					
$\frac{1}{4}$				No. 4	
$\frac{9}{32}$					
$\frac{5}{16}$		$\frac{1}{8}$	$\frac{1}{8}$	Nos. 5 & 6	
$\frac{11}{32}$				No. 8	
$\frac{3}{8}$			$\frac{3}{16}$	No. 10	
$\frac{7}{16}$	$\frac{1}{4}$		$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$
$\frac{1}{2}$	$\frac{5}{16}$	$\frac{1}{4}$	$\frac{5}{16}$		$\frac{5}{16}$
$\frac{9}{16}$	$\frac{3}{8}$		$\frac{3}{8}$	$\frac{5}{16}$	$\frac{3}{8}$
$\frac{19}{32}$		$\frac{5}{16}$			
$\frac{5}{8}$	$\frac{7}{16}$		$\frac{7}{16}$	$\frac{3}{8}$	$\frac{7}{16}$
$\frac{11}{16}$		$\frac{3}{8}$			
$\frac{3}{4}$	$\frac{1}{2}$		$\frac{1}{2}$	$\frac{7}{16}$	$\frac{1}{2}$
$\frac{25}{32}$		$\frac{1}{16}$			
$\frac{13}{16}$			$\frac{9}{16}$	$\frac{1}{2}$	$\frac{9}{16}$
$\frac{7}{8}$	$\frac{9}{16}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{9}{16}$	$\frac{5}{8}$
$\frac{15}{16}$	$\frac{5}{8}$			$\frac{5}{8}$	
$\frac{21}{32}$		$\frac{9}{16}$			
1	$\frac{11}{16}$		$\frac{3}{4}$		$\frac{3}{4}$
$1\frac{1}{16}$	$\frac{3}{4}$	$\frac{5}{8}$			
$1\frac{1}{8}$			$\frac{7}{8}$	$\frac{3}{4}$	$\frac{7}{8}$
$1\frac{3}{16}$					
$1\frac{1}{4}$	$\frac{7}{8}$	$\frac{3}{4}$	1		
$1\frac{5}{16}$				$\frac{7}{8}$	1
$1\frac{3}{8}$			$1\frac{1}{8}$		
$1\frac{7}{16}$	1	$\frac{7}{8}$			
$1\frac{1}{2}$			$1\frac{1}{4}$	1	$1\frac{1}{8}$
$1\frac{9}{16}$					
$1\frac{5}{8}$	$1\frac{1}{8}$	1	$1\frac{3}{8}$		
$1\frac{11}{16}$				$1\frac{1}{8}$	$1\frac{1}{4}$
$1\frac{3}{4}$					
$1\frac{13}{16}$	$1\frac{1}{4}$	$1\frac{1}{8}$			
$1\frac{7}{8}$				$1\frac{1}{4}$	
2	$1\frac{3}{8}$	$1\frac{1}{4}$			
$2\frac{1}{16}$					
$2\frac{1}{8}$					
$2\frac{3}{16}$	$1\frac{1}{2}$	$1\frac{3}{8}$			
$2\frac{1}{4}$				$1\frac{1}{2}$	
$2\frac{5}{16}$					
$2\frac{3}{8}$		$1\frac{1}{2}$			
$2\frac{7}{16}$					
$2\frac{1}{2}$					
$2\frac{9}{16}$		$1\frac{5}{8}$			
$2\frac{5}{8}$				$1\frac{3}{4}$	
$2\frac{11}{16}$					
$2\frac{3}{4}$		$1\frac{3}{4}$			
$2\frac{15}{16}$		$1\frac{7}{8}$			
$3\frac{1}{8}$		2			

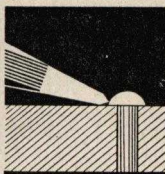
The Proper Use of Chisels and Punches

You will obtain much longer and better service from your chisels and punches by taking care to select the proper one for each job. Follow the above rule and you will find that it will not be necessary to recondition these tools as often as before, or will you damage the chisel or punch. Chisels and punches are designed for certain jobs and give the best results when used on those jobs. For example, a Flat Chisel should never be used to cut off a bolt head or rivet . . use a cutting chisel such as a Rivet Buster.

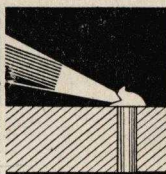
When chisels and punches are not abused they may easily be kept in first class condition through occasional redressing with a file. The illustrations below show how a perfectly good chisel can be ruined by improper use.



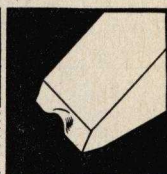
The wrong chisel to use for cutting bolt heads or rivets. Notice the shape of the cutting edge.



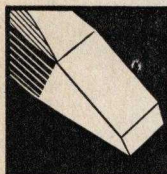
When this type chisel is applied it is impossible to get the cutting edge under the head of the bolt or rivet.



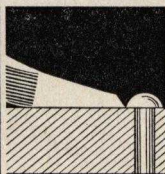
When the cut is made the chisel does not take the head off cleanly, and it injures the chisel.



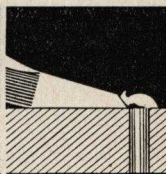
Result of using the wrong chisel. The cutting edge has been badly damaged.



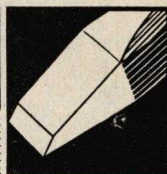
The right chisel to use when cutting bolt heads and rivets. It is generally known as a Rivet Buster.



The flat side or cutting edge of the chisel is placed flush with the bolt or rivet head.

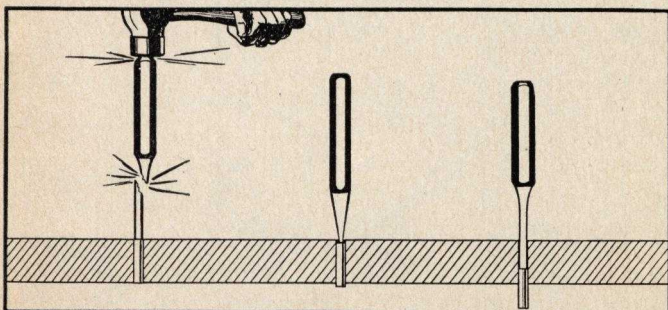


A few taps and the rivet or bolt head is removed. Chisel is not damaged and a good job is done.



Result of using the correct chisel. Cutting edge is not damaged and the job was done quickly.

When and How to Use a Pin Punch



Pin Punches when properly used will give long and efficient service. A simple procedure when using a pin punch is as follows: Don't use it to start the pin. A pin punch is not designed for such service. Use a taper punch. A few taps will generally loosen the pin. Then drive the pin through with the pin punch.

If you use the pin punch for both operations, starting and driving through, you are apt to break it as is shown above.

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